



VERIFICATION REPORT

GLOBAL CARBON B.V.

VERIFICATION OF THE

“PROCESSING OF WASTE HEAPS AT

MONOLITH-UKRAINE”

INITIAL AND FIRST PERIODIC FOR THE PERIOD

01/01/2010 – 31/10/2011

REPORT No. UKRAINE-VER/0388/2011

REVISION No. 02

BUREAU VERITAS CERTIFICATION



VERIFICATION REPORT

Date of first issue: 16/11/2011	Organizational unit: Bureau Veritas Certification Holding SAS
Client: Global Carbon B.V.	Client ref.: Lennard de Klerk

Summary:

Bureau Veritas Certification has made the initial and 1st periodic verification of the "Processing of waste heaps at Monolith-Ukraine", JI Registration Reference Number 0246, project of Global Carbon B.V. located in the Klenoviy village, Sverdlovsk district, Luhansk Region, Ukraine, and applying the JI specific approach, on the basis of UNFCCC criteria for the JI, as well as criteria given to provide for consistent project operations, monitoring and reporting. UNFCCC criteria refer to Article 6 of the Kyoto Protocol, the JI rules and modalities and the subsequent decisions by the JI Supervisory Committee, as well as the host country criteria.

The verification scope is defined as a periodic independent review and ex post determination by the Accredited Independent Entity of the monitored reductions in GHG emissions during defined verification period, and consisted of the following three phases: i) desk review of the monitoring report based on determined project design and the baseline and monitoring plan; ii) follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification report and opinion. The overall verification, from Contract Review to Verification Report & Opinion, was conducted using Bureau Veritas Certification internal procedures.

The first output of the verification process is a list of Clarification, Corrective Actions Requests, Forward Actions Requests (CR, CAR and FAR), presented in Appendix A.

In summary, Bureau Veritas Certification confirms that the project is implemented as planned and described in approved project design document. Installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately. The monitoring system is in place and the project is generating GHG emission reductions. The GHG emission reduction is calculated accurately and without material errors, omissions, or misstatements, and the ERUs to be issued totalize 219704 for the monitoring period 01/01/2010-30/10/2011 (104115 tons of CO₂eq for the period 01/01/2010 – 31/12/2010 and 115589 tons of CO₂eq for the period 01/01/2011 – 30/10/2011).

Our opinion relates to the project's GHG emissions and resulting GHG emission reductions reported and related to the approved project baseline and monitoring, and its associated documents.

Report No.: UKRAINE-ver/0388/2011	Subject Group: JI	
Project title: "Processing of waste heaps at Monolith-Ukraine"		
Work carried out by: Team Leader : Kateryna Zinevych Team Member : Sergiy Kustovskyy Team Member : Oleksiy Dzhafarov Specialist : Alexey Kulakov		
Work reviewed by: Ivan Sokolov – Internal Technical Reviewer		
Work approved by: Flavio Gomes – Climate Change Operational Manager		
Date of this revision: 21/11/2011	Rev. No.: 02	Number of pages: 28

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1 INTRODUCTION

Global Carbon B.V. has commissioned Bureau Veritas Certification to verify the emissions reductions of its JI project “Processing of waste heaps at Monolith-Ukraine” (hereafter called “the project”) at Klenoviy village, Sverdlovsk district, Luhansk Region, Ukraine.

This report summarizes the findings of the verification of the project, performed on the basis of UNFCCC criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

1.1 Objective

Verification is the periodic independent review and ex post determination by the Accredited Independent Entity of the monitored reductions in GHG emissions during defined verification period.

The objective of verification can be divided in Initial Verification and Periodic Verification.

UNFCCC criteria refer to Article 6 of the Kyoto Protocol, the JI rules and modalities and the subsequent decisions by the JI Supervisory Committee, as well as the host country criteria.

1.2 Scope

The verification scope is defined as an independent and objective review of the submitted monitoring report and is based on determined project design document, the project’s baseline study and monitoring plan and other relevant documents. The information in these documents is reviewed against Kyoto Protocol requirements, UNFCCC rules and associated interpretations.

The verification is not meant to provide any consulting towards the Client. However, stated requests for clarifications, corrective and/or forward actions may provide input for improvement of the project monitoring towards reductions in the GHG emissions.

1.3 Verification Team

The verification team consists of the following personnel:

Kateryna Zinevych
Bureau Veritas Certification Team Leader, Climate Change Verifier

Sergiy Kustovskyy



Bureau Veritas Certification Team Member, Climate Change Verifier

Oleksiy Dzhafarov

Bureau Veritas Certification Team Member, Climate Change Verifier

Alexey Kulakov

Bureau Veritas Certification Team Member, Climate Change Specialist

This verification report was reviewed by:

Ivan Sokolov

Bureau Veritas Certification, Internal Technical Reviewer

2 METHODOLOGY

The overall verification, from Contract Review to Verification Report & Opinion, was conducted using Bureau Veritas Certification internal procedures.

In order to ensure transparency, a verification protocol was customized for the project, according to the version 01 of the Joint Implementation Determination and Verification Manual, issued by the Joint Implementation Supervisory Committee at its 19th meeting on 04/12/2009. The protocol shows, in a transparent manner, criteria (requirements), means of verification and the results from verifying the identified criteria. The verification protocol serves the following purposes:

- It organizes, details and clarifies the requirements a JI project is expected to meet;
- It ensures a transparent verification process where the verifier will document how a particular requirement has been verified and the result of the verification.

The completed verification protocol is enclosed in Appendix A to this report.

2.1 Review of Documents

The Monitoring Report (MR) submitted by Global Carbon B.V. and additional background documents related to the project design and baseline, i.e. country Law, Project Design Document (PDD) and Guidance on criteria for baseline setting and monitoring, Host party criteria, Kyoto Protocol, Clarifications on Verification Requirements to be Checked by an Accredited Independent Entity were reviewed.



The verification findings presented in this report relate to the Monitoring Report version(s) 3.1, 4.0 and project as described in the determined PDD Version 3.0 dated 31/08/2011.

2.2 Follow-up Interviews

On 03/11/2011 Bureau Veritas Certification performed on-site interviews with project stakeholders to confirm selected information and to resolve issues identified in the document review. Representatives of Global Carbon B.V. and “Monolith-Ukraine” LTD were interviewed (see References). The main topics of the interviews are summarized in Table 1.

Table 1 Interview topics

Interviewed organization	Interview topics
Monolith-Ukraine LTD	<ul style="list-style-type: none"> ➤ Organizational structure. ➤ Responsibilities and authorities. ➤ Training of personnel. ➤ Quality management procedures and technology. ➤ Implementation of equipment (records). ➤ Metering equipment control. ➤ Metering record keeping system, database.
Consultant: Global Carbon BV	<ul style="list-style-type: none"> ➤ Baseline methodology. ➤ Monitoring plan. ➤ Monitoring report. ➤ Deviations from PDD.

2.3 Resolution of Clarification, Corrective and Forward Action Requests

The objective of this phase of the verification is to raise the requests for corrective actions and clarification and any other outstanding issues that needed to be clarified for Bureau Veritas Certification positive conclusion on the GHG emission reduction calculation.

If the Verification Team, in assessing the monitoring report and supporting documents, identifies issues that need to be corrected, clarified or improved with regard to the monitoring requirements, it should raise these issues and inform the project participants of these issues in the form of:

(a) Corrective action request (CAR), requesting the project participants to correct a mistake that is not in accordance with the monitoring plan;



(b) Clarification request (CL), requesting the project participants to provide additional information for the Verification Team to assess compliance with the monitoring plan;

(c) Forward action request (FAR), informing the project participants of an issue, relating to the monitoring that needs to be reviewed during the next verification period.

The Verification Team will make an objective assessment as to whether the actions taken by the project participants, if any, satisfactorily resolve the issues raised, if any, and should conclude its findings of the verification.

To guarantee the transparency of the verification process, the concerns raised are documented in more detail in the verification protocol in Appendix A.

3 VERIFICATION CONCLUSIONS

In the following sections, the conclusions of the verification are stated.

The findings from the desk review of the original monitoring documents and the findings from interviews during the follow up visit are described in the Verification Protocol in Appendix A.

The Clarification, Corrective and Forward Action Requests are stated, where applicable, in the following sections and are further documented in the Verification Protocol in Appendix A. The verification of the Project resulted in 12 Corrective Action Requests, 3 Clarification Requests and 1 Forward Action Request.

The number between brackets at the end of each section corresponds to the DVM paragraph.

3.1 Remaining issues and FARs from previous verifications

No FARs were raised during determination. As this is the initial verification there are no FARs from previous verifications.

3.2 Project approval by Parties involved (90-91)

The project obtained approval by the Host party (Ukraine) - Letter of Approval # 2276/23/7 issued by the State Environmental Investment Agency of Ukraine dated 26/08/2011, and written project approval by the party – buyer of the emission reduction units (Netherlands) - Declaration



of Approval issued by NL Agency, Ministry of Economic Affairs of Netherlands #2011JI24 dated 04/07/2011.

The abovementioned written approvals are unconditional.

No outstanding issues were raised.

3.3 Project implementation (92-93)

Project is aimed at coal extraction from the mine's waste heaps near the Klenoviy village, Sverdlovsk district, Luhansk Region, Ukraine. This will prevent greenhouse gas emissions into the atmosphere during combustion of the heaps and will contribute an additional amount of coal, without the need for mining. The Project includes the installation of coal extraction units and the grading of the extracted coal. Extracted coal is then sold for heat and power production.

Therefore, in the project scenario the coal extracted from the waste heaps partly substitutes the coal from the mine, decreasing fugitive methane emissions, and reduces GHG emissions due to waste heap combustion by extracting all of the combustible material from the waste heaps.

The first stage of the process includes dismantling of the waste heap with a bulldozer and transporting it to a mobile sorting unit that uses a dry vibrating screening process. At this stage grades "+100", "+40", and "-40" mm are separated. Grades "+100", "+40" mm are sorted out at a slow conveyor belt and moved to the ready product storage.

The second stage of the process includes sending "-40" mm grade to a special concentration facility designed by the company Parnaby Cyclones International (Great Britain). The facility uses a dense medium cyclone with magnetite suspension to concentrate coal. The facility produces "1-3", "0-6", and "6-40" mm coal grades. The facility is fully automatic. The concentration facility is duly equipped with safety interlocks, alarms, emergency shut-off and operation sensors.

Once the waste heap has been processed and coal is extracted, the land released from under the waste heap is remediated and returned to the community. The residue after processing, which is mainly barren rock, can be used to shape terrain of abandoned open-cast mining sites so that such areas may be used again for development purposes.

The technological process is environmentally sound and does not require the use of hazardous materials. Waste heaps are processed with dense medium cyclones that use water in a closed cycle as an operating fluid.



The project has been operational for the whole monitoring period (01/01/2010 – 31/10/2011).

No outstanding issues were raised.

3.4 Compliance of the monitoring plan with the monitoring methodology (94-98)

The monitoring occurred in accordance with the monitoring plan included in the PDD regarding which the determination has been deemed final and is so listed on the UNFCCC JI website.

For calculating the emission reductions or enhancements of net removals, key factors influencing the baseline emissions or net removals and the activity level of the project and the emissions or removals as well as risks associated with the project were taken into account, as appropriate.

Data sources used for calculating emission reductions or enhancements of net removals are clearly identified, reliable and transparent.

Emission factors, including default emission factors, are selected by carefully balancing accuracy and reasonableness, and appropriately justified of the choice.

The calculation of emission reductions or enhancements of net removals is based on conservative assumptions and the most plausible scenarios in a transparent manner.

The identified areas of concern as to the compliance of the monitoring plan with the monitoring methodology, project participants responses and Bureau Veritas Certification's conclusions are described in Appendix A to this report (refer to CARs 01 – 06, 12, CLs 01, 02, FAR 01).

3.5 Revision of monitoring plan (99-100)

According to the selected approach, the CO₂ emission factor for electricity consumed by the project activity in every year of the monitoring period has been fixed ex-ante based on the best available study at the time of PDD preparation. In the meantime the new study has become available - Specific carbon emission factors for the production of electricity, National Environmental Investment Agency of Ukraine (NEIA), 2011. This methodology and the resulting carbon emission factor have been developed by the Designated Focal Point (DFP) of Ukraine for the application in JI projects. Carbon emission factors for the years 2008, 2009, 2010 and 2011 estimate are available. It is established that actual



ex-post emission factors will be calculated and published every year for the previous year before the 1st of March. As these data are more recent and detailed it is proposed to utilize it for the purpose of the monitoring. The new emission factors are higher than the one used in the PDD and they influence project emissions. Proposed approach is, therefore, conservative.

Other revisions to the monitoring plan detail the references to the default values and ex-ante figures used in the calculations of the GHG emission reductions.

The proposed revision improves the accuracy and/or applicability of information collected compared to the original monitoring plan without changing conformity with the relevant rules and regulations for the establishment of monitoring plans.

No outstanding issues were raised.

3.6 Data management (101)

The data and their sources, provided in monitoring report, are clearly identified, reliable and transparent.

The implementation of data collection procedures is in accordance with the monitoring plan, including the quality control and quality assurance procedures. These procedures are mentioned in the section "References" of this report.

The function of the monitoring equipment, including its calibration status, is in order.

The evidence and records used for the monitoring are maintained in a traceable manner.

The data collection and management system for the project is in accordance with the monitoring plan.

The identified areas of concern as to the data management, project participants responses and Bureau Veritas Certification's conclusions are described in Appendix A to this report (refer to CARs 07 – 11, CL 03).



3.7 Verification regarding programmes of activities (102-110)

Not applicable.

4 VERIFICATION OPINION

Bureau Veritas Certification has performed the initial and 1st periodic verification of the “Processing of waste heaps at Monolith-Ukraine” project in Ukraine, which applies JI specific approach. The verification was performed on the basis of UNFCCC criteria and host country criteria and also on the criteria given to provide for consistent project operations, monitoring and reporting.

The verification consisted of the following three phases: i) desk review of the monitoring report based on determined project design and the baseline and monitoring plan; ii) follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification report and opinion.

The management of “Monolith-Ukraine” LTD is responsible for the preparation of the GHG emissions data and the reporting of GHG emissions reductions of the project on the basis set out within the project Monitoring Plan indicated in the final PDD version 3.0. The development and maintenance of records and reporting procedures in accordance with that plan, including the calculation and determination of GHG emission reductions from the project, is the responsibility of the management of the project.

Bureau Veritas Certification verified the Monitoring Report version 4.0 for the reporting period as indicated below. Bureau Veritas Certification confirms that the project is implemented as planned and described in approved project design documents and as per determined changes. Installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately. The monitoring system is in place and the project is generating GHG emission reductions.

Bureau Veritas Certification can confirm that the GHG emission reduction is accurately calculated and is free of material errors, omissions, or misstatements. Our opinion relates to the project’s GHG emissions and resulting GHG emissions reductions reported and related to the approved project baseline and monitoring, and its associated documents. Based on the information we have seen and evaluated, we confirm, with a reasonable level of assurance, the following statement:



Reporting period: From 01/01/2010 to 31/10/2011

For the period from 01/01/2010 to 31/12/2010

Baseline emissions	: 85498	t of CO ₂ equivalents.
Project emissions	: 2908	t of CO ₂ equivalents.
Leakages	: -21525	t of CO ₂ equivalents.
Emission Reductions	: 104115	t of CO ₂ equivalents.

For the period from 01/01/2011 to 30/10/2011

Baseline emissions	: 94568	t of CO ₂ equivalents.
Project emissions	: 2787	t of CO ₂ equivalents.
Leakages	: -23808	t of CO ₂ equivalents.
Emission Reductions	: 115589	t of CO ₂ equivalents.

Total for the monitoring period from 01/01/2010 to 31/10/2011:

Baseline emissions	: 180066	t of CO ₂ equivalents.
Project emissions	: 5695	t of CO ₂ equivalents.
Leakages	: -45333	t of CO ₂ equivalents.
Emission Reductions	: 219704	t of CO ₂ equivalents.



5 REFERENCES

Category 1 Documents:

Documents provided by Global Carbon B.V. that relate directly to the GHG components of the project.

- /1/ Monitoring Report "Processing of waste heaps at Monolith-Ukraine" version 3.1, dated 01/11/2011.
- /2/ Monitoring Report "Processing of waste heaps at Monolith-Ukraine" version 4.0, dated 04/11/2011
- /3/ Project Design Document "Processing of waste heaps at Monolith-Ukraine" version 3.0 dated 31/08/2011.
- /4/ Determination Report "Processing of waste heaps at Monolith-Ukraine" No.2011-9077 dated 02/09/2011 issued by Det Norske Veritas.
- /5/ Calculation of GHG emission reductions dated 04/11/2011 (Excel file).
- /6/ Letter of Approval #2276/23/7 issued by State Environmental Investment Agency of Ukraine dated 26/08/2011
- /7/ Declaration of Approval #2011JI14 issued by NL Agency, Ministry of Economic Affairs of Netherlands dated 04/07/2011

Category 2 Documents:

Background documents related to the design and/or methodologies employed in the design or other reference documents.

- /1/ Certificate on receiving and checking of multifunction meter type EPQS 122.09.04, serial # 291479
- /2/ Report #4 on measurement equipment by "Monolith-Ukraine" LTD
- /3/ Attestation certificate # UA-MI/1-2271-2008 dated 15/04/2008 on type of measuring equipment
- /4/ Operating Documents for DVA-80.00.00. ED "Automobile scales type DVA-80 "
- /5/ Certificate #319 dated 25/02/2010 on metrology attestation
- /6/ Daily report dated 31/01/2010 on work of "Monolith-Ukraine" LTD for January 2010
- /7/ Daily report dated 28/02/2010 on work of "Monolith-Ukraine" LTD for February 2010
- /8/ Daily report dated 31/03/2010 on work of "Monolith-Ukraine" LTD for March 2010
- /9/ Daily report dated 30/04/2010 on work of "Monolith-Ukraine" LTD for April 2010
- /10/ Daily report dated 31/05/2010 on work of "Monolith-Ukraine" LTD for May 2010
- /11/ Daily report dated 30/06/2010 on work of "Monolith-Ukraine" LTD for June 2010
- /12/ Daily report dated 31/07/2010 on work of "Monolith-Ukraine" LTD



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- for July 2010
- /13/ Daily report dated 31/08/2010 on work of “Monolith-Ukraine” LTD for August 2010
 - /14/ Daily report dated 30/09/2010 on work of “Monolith-Ukraine” LTD for September 2010
 - /15/ Daily report dated 31/10/2010 on work of “Monolith-Ukraine” LTD for October 2010
 - /16/ Daily report dated 30/11/2010 on work of “Monolith-Ukraine” LTD for November 2010
 - /17/ Daily report dated 31/12/2010 on work of “Monolith-Ukraine” LTD for December 2010
 - /18/ Daily report dated 31/01/2010 on work of “Monolith-Ukraine” LTD for January 2010
 - /19/ Daily report dated 28/02/2011 on work of “Monolith-Ukraine” LTD for February 2011
 - /20/ Daily report dated 31/03/2011 on work of “Monolith-Ukraine” LTD for March 2011
 - /21/ Daily report dated 28/02/2011 on work of “Monolith-Ukraine” LTD for April 2011
 - /22/ Daily report dated 31/05/2011 on work of “Monolith-Ukraine” LTD for May 2011
 - /23/ Daily report dated 28/02/2011 on work of “Monolith-Ukraine” LTD for June 2011
 - /24/ Daily report dated 31/07/2011 on work of “Monolith-Ukraine” LTD for July 2011
 - /25/ Daily report dated 31/08/2011 on work of “Monolith-Ukraine” LTD for August 2011
 - /26/ Daily report dated 30/09/2011 on work of “Monolith-Ukraine” LTD for September 2011
 - /27/ Daily report dated 31/10/2011 on work of “Monolith-Ukraine” LTD for October 2011
 - /28/ Write-off certificate #18 dated 31/01/2010
 - /29/ Write-off certificate #32 dated 28/02/2010
 - /30/ Write-off certificate #26 dated 31/03/2010
 - /31/ Write-off certificate #47 dated 31/03/2010
 - /32/ Write-off certificate #48 dated 30/04/2010
 - /33/ Write-off certificate #61 dated 30/04/2010
 - /34/ Write-off certificate #63 dated 31/05/2010
 - /35/ Write-off certificate #66 dated 31/05/2010
 - /36/ Write-off certificate #97 dated 30/06/2010
 - /37/ Write-off certificate #137 dated 31/07/2010
 - /38/ Write-off certificate #185 dated 31/07/2010
 - /39/ Write-off certificate #185 dated 31/08/2010
 - /40/ Write-off certificate #187 dated 31/08/2010
 - /41/ Write-off certificate #233 dated 30/09/2010
 - /42/ Write-off certificate #289 dated 30/09/2010
 - /43/ Write-off certificate #286 dated 31/10/2010



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- /44/ Write-off certificate #289 dated 31/10/2010
- /45/ Write-off certificate #291 dated 31/10/2010
- /46/ Write-off certificate #341 dated 30/11/2010
- /47/ Write-off certificate #405 dated 30/11/2010
- /48/ Write-off certificate #346 dated 30/11/2010
- /49/ Write-off certificate #406 dated 31/12/2010
- /50/ Write-off certificate #411 dated 31/12/2010
- /51/ Write-off certificate #465 dated 31/12/2010
- /52/ Write-off certificate #1 dated 31/01/2011
- /53/ Write-off certificate #52 dated 31/01/2011
- /54/ Write-off certificate #43 dated 31/01/2011
- /55/ Write-off certificate #54 dated 28/02/2011
- /56/ Write-off certificate #94 dated 28/02/2011
- /57/ Write-off certificate #86 dated 28/02/2011
- /58/ Write-off certificate #102 dated 31/03/2011
- /59/ Write-off certificate #126 dated 31/03/2011
- /60/ Write-off certificate #96 dated 31/03/2011
- /61/ Write-off certificate #127 dated 30/04/2011
- /62/ Write-off certificate #233 dated 30/04/2011
- /63/ Write-off certificate #141 dated 30/04/2011
- /64/ Write-off certificate #187 dated 31/05/2011
- /65/ Write-off certificate #193 dated 31/05/2011
- /66/ Write-off certificate #212 dated 30/06/2011
- /67/ Write-off certificate #234 dated 31/06/2011
- /68/ Write-off certificate #251 dated 30/06/2011
- /69/ Write-off certificate #252 dated 31/07/2011
- /70/ Write-off certificate #286 dated 31/07/2011
- /71/ Write-off certificate #293 dated 31/07/2011
- /72/ Write-off certificate #297 dated 31/08/2011
- /73/ Write-off certificate #298 dated 31/08/2011
- /74/ Write-off certificate #318 dated 31/08/2011
- /75/ Write-off certificate #329 dated 30/09/2011
- /76/ Write-off certificate #335 dated 30/09/2011
- /77/ Write-off certificate #378 dated 31/10/2011
- /78/ Write-off certificate #388 dated 31/01/2011
- /79/ Invoice #453 dated 31/01/2010 for electricity for January 2010
- /80/ Invoice #453 dated 28/02/2010 for electricity for February 2010
- /81/ Invoice #453 dated 31/03/2010 for electricity for March 2010
- /82/ Invoice #453 dated 30/04/2010 for electricity for April 2010
- /83/ Invoice #453 dated 31/05/2010 for electricity for May 2010
- /84/ Invoice #453 dated 30/06/2010 for electricity for June 2010
- /85/ Invoice #453 dated 30/07/2010 for electricity for July 2010
- /86/ Invoice #453 dated 31/08/2010 for electricity for August 2010
- /87/ Invoice #453 dated 30/09/2010 for electricity for September 2010
- /88/ Invoice #453 dated 31/10/2010 for electricity for October 2010
- /89/ Invoice #453 dated 30/11/2010 for electricity for November 2010
- /90/ Invoice #453 dated 31/12/2010 for electricity for December 2010



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- /91/ Invoice #453 dated 31/01/2011 for electricity for January 2010
- /92/ Invoice #453 dated 28/02/2011 for electricity for February 2011
- /93/ Invoice #453 dated 31/03/2010 for electricity for March 2010
- /94/ Invoice #453 dated 30/04/2010 for electricity for April 2010
- /95/ Invoice #453 dated 31/05/2011 for electricity for May 2011
- /96/ Invoice #453 dated 30/06/2011 for electricity for June 2011
- /97/ Invoice #453 dated 31/07/2011 for electricity for July 2011
- /98/ Invoice #453 dated 31/08/2011 for electricity for August 2011
- /99/ Invoice #453 dated 31/09/2011 for electricity for September 2011
- /100/ Invoice #453 dated 31/10/2011 for electricity for May 2011
- /101/ Permit # 18/2009 dated 15/01/2009 for construction start
- /102/ Permit # 4018.09.30 – 10.10.1 dated 31/12/2009 for operations start
- /103/ Appendix to the permit # 4018.09.30 – 10.10.1 dated 31/12/2009
- /104/ Conformity certificate # LG000082 dated 19/02/2010
- /105/ Monitoring instruction dated 19/02/2010 for main parameters of enterprise activity for implementation of joint implementation project according to Kyoto protocol by “Monolith-Ukraine” LTD
- /106/ Order #1 dated 19/01/2010 on Implementation of monitoring instruction at “Monolith-Ukraine” LTD
- /107/ Project # 11/2008 dated from 2008 for “Rock processing and coal beneficiation plant at the site of the former “Daryivska” mine”
- /108/ Conformity certificate # UA1.039.0129341-10 dated 18/10/2010
- /109/ Agreement #879 dated 05/01/2011
- /110/ Analysis on the fire risk of Luhansk Region’s waste heaps, Scientific Research Institute “Respirator”, Donetsk, 2010
- /111/ Order #1/2 dated 20/01/2010 “On the introduction of term for documents storage” by “Monolith-Ukraine” LTD
- /112/ Conclusion dated 11/08/2008 of the state environmental expertise for the project “Rock processing and coal beneficiation plant at the site of the former “Daryivska” mine”
- /113/ Journal dated 21/03/2011 on registration of safety trainings at work place
- /114/ Certificate #62687 dated 04/06/2010 on assignment of qualification level of working professions.
- /115/ Certificate #62688 dated 04/06/2010 on assignment of qualification level of working professions.

Persons interviewed:

List of the persons interviewed during the verification or persons that contributed with other information that are not included in the documents listed above.

Global Carbon B.V.:

- /1/ Denis Prusakov – Senior JI Consultant
- /2/ Yevgeniy Altukhov – Head of Global Carbon B.V. Representation in South-Eastern Ukraine



/3/ Vladislav Antypov – Deputy Head of Global Carbon B.V.
Representation in South-Eastern Ukraine

“Monolith-Ukraine” LTD:

- /4/ Yuliya Olifirova – Financial Director
- /5/ Iurii Khlustin – General Director
- /6/ Anatolii Konovalenko – Production Manager
- /7/ Alexander Osnach – Commercial Director
- /8/ Vladimir Tkachuk – Chief Power Engineer



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APPENDIX A: COMPANY PROJECT VERIFICATION PROTOCOL

Check list for verification, according to the JOINT IMPLEMENTATION DETERMINATION AND VERIFICATION MANUAL (Version 01)

DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
Project approvals by Parties involved				
90	Has the DFPs of at least one Party involved, other than the host Party, issued a written project approval when submitting the first verification report to the secretariat for publication in accordance with paragraph 38 of the JI guidelines, at the latest?	The project has been approved by both DFPs. The Letters of Approval were presented to the verification team. Letters of Approval by both Parties were submitted to the secretariat on the final determination stage.	OK	OK
91	Are all the written project approvals by Parties involved unconditional?	Yes, all the written project approvals by Parties involved are unconditional.	OK	OK
Project implementation				
92	Has the project been implemented in accordance with the PDD regarding which the determination has been deemed final and is so listed on the UNFCCC JI website?	The project has been implemented in accordance with the PDD regarding which the determination has been deemed final.	OK	OK
93	What is the status of operation of the project during the monitoring period?	Project has been operational for the whole monitoring period, which is 01/01/2010 – 31/10/2011.	OK	OK
Compliance with monitoring plan				
94	Did the monitoring occur in accordance with the monitoring plan included in the PDD regarding which the determination has been deemed final and is so listed on the UNFCCC JI website?	In general, monitoring occurred in accordance with the monitoring plan included in the PDD regarding which the determination has been deemed final. A few deviations to the monitoring plan are described in section A.8 of the MR.	OK	OK
95 (a)	For calculating the emission reductions or enhancements of net removals, were key factors, e.g. those listed in 23 (b) (i)-(vii) above, influencing the baseline emissions or net removals and the activity level of the project and the emissions or removals as well as risks	Key factors, e.g. those listed in 23 (b) (i)-(vii) above, influencing the baseline emissions or net removals and the activity level of the project and the emissions or removals as well as risks associated with the project were taken into account. The relevant information is provided in section A.5.1 of the MR.	OK	OK



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DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	associated with the project taken into account, as appropriate?			
95 (b)	Are data sources used for calculating emission reductions or enhancements of net removals clearly identified, reliable and transparent?	<p><u>Corrective Action Request (CAR) 01.</u> Please provide passports, calibration/verification certificates and calibration/verification schedules on electricity meter EPQS and car scales DVA-80.</p> <p><u>Corrective Action Request (CAR) 02.</u> Please provide the copies of documents that are sources of data on electricity and diesel fuel consumption and the amount of coal extracted from waste heaps in the project activity (such as monthly, annual reports).</p> <p><u>Corrective Action Request (CAR) 03.</u> Please provide the certificates for diesel fuel consumed in the project activity.</p> <p><u>Forward Action Request (FAR) 01.</u> There are no calibration/verification schedules at the enterprise. Please provide timeliness of the following calibrations.</p>	CAR 01 CAR 02 CAR 03 FAR 01	OK OK OK To be checked during next verification
95 (c)	Are emission factors, including default emission factors, if used for calculating the emission reductions or enhancements of net removals, selected by carefully balancing accuracy and reasonableness, and appropriately justified of the choice?	<p>In general, emission factors are appropriately justified.</p> <p><u>Clarification Request (CL) 01.</u> In Table on the page 5 please provide the values of emission factors used in emission reduction calculations.</p> <p><u>Clarification Request (CL) 02.</u> In Table 5 the value of carbon content of coal is referred to National Inventory Report of Ukraine 1990-2008, p. 265. Still the relevant information is provided on the page 264 of this document. Please correct.</p> <p><u>Corrective Action Request (CAR) 04.</u> Please provide the copy of source of data for correction factor for the uncertainty of the waste heaps burning process (see Table 5 of the MR).</p>	CL 01 CL 02 CAR 04	OK OK OK
95 (d)	Is the calculation of emission reductions or enhancements of net removals based on	<p><u>Corrective Action Request (CAR) 05.</u> Calculation of the total value of parameter FC BE, Coal, y for</p>	CAR 05 CAR 06	OK OK



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DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	conservative assumptions and the most plausible scenarios in a transparent manner?	2010 is incorrect. Please recheck. <u>Corrective Action Request (CAR) 06.</u> Some values provided in Tables of the MR are colored in red. Please correct. Please also check data accuracy of these values. <u>Corrective Action Request (CAR) 12.</u> The values of ERUs in the MR and in the PDD are different. Please explain the origin of the difference or correct.	CAR 12	OK
Applicable to JI SSC projects only				
96	Is the relevant threshold to be classified as JI SSC project not exceeded during the monitoring period on an annual average basis? If the threshold is exceeded, is the maximum emission reduction level estimated in the PDD for the JI SSC project or the bundle for the monitoring period determined?	N/A	OK	OK
Applicable to bundled JI SSC projects only				
97 (a)	Has the composition of the bundle not changed from that is stated in F-JI-SSCBUNDLE?	N/A	OK	OK
97 (b)	If the determination was conducted on the basis of an overall monitoring plan, have the project participants submitted a common monitoring report?	N/A	OK	OK
98	If the monitoring is based on a monitoring plan that provides for overlapping monitoring periods, are the monitoring periods per component of the project clearly specified in the monitoring report? Do the monitoring periods not overlap with those for which verifications were already deemed final in the past?	N/A	OK	OK
Revision of monitoring plan				



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DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
Applicable only if monitoring plan is revised by project participant				
99 (a)	Did the project participants provide an appropriate justification for the proposed revision?	Yes, the justification for the proposed revision is appropriate.	OK	OK
99 (b)	Does the proposed revision improve the accuracy and/or applicability of information collected compared to the original monitoring plan without changing conformity with the relevant rules and regulations for the establishment of monitoring plans?	Yes, the proposed revision improves the accuracy and applicability of information collected compared to the original monitoring plan without changing conformity with the relevant rules and regulations.	OK	OK
Data management				
101 (a)	Is the implementation of data collection procedures in accordance with the monitoring plan, including the quality control and quality assurance procedures?	<u>Corrective Action Request (CAR) 07.</u> Please provide the documental proofs of construction start of the coal extraction plant, acceptance of the coal extraction plant, operation start of the coal extraction plant. <u>Corrective Action Request (CAR) 08.</u> Please provide documentation that proves the personnel education and competence of personnel working on extraction plant. <u>Corrective Action Request (CAR) 09.</u> Please provide the environmental impacts assessment documentation.	CAR 07 CAR 08 CAR 09	OK OK OK
101 (b)	Is the function of the monitoring equipment, including its calibration status, is in order?	See CAR 01 above.	OK	OK
101 (c)	Are the evidence and records used for the monitoring maintained in a traceable manner?	<u>Corrective Action Request (CAR) 10.</u> Please justify that the data will be archived and kept for two years after the last transfer of ERUs from the project. <u>Corrective Action Request (CAR) 11.</u> Please provide the copy of agreement with "Luhansk Regional Scientific Industrial Center for Standardization, Metrology and Certification". <u>Clarification Request (CL) 03.</u>	CAR 10 CAR 11 CL 03	OK OK OK



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DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
		Tables in the MR are numbered partly. Please provide numbers and titles for all tables (e.g. those on page 4, 5). See also CAR 01, CAR 02, CAR 03, CAR 07, CAR 08, CAR 09 above.		
101 (d)	Is the data collection and management system for the project in accordance with the monitoring plan?	See CAR 01, CAR 02, CAR 06, CAR 08, CAR 09, CAR 10 above.	OK	OK
Verification regarding programs of activities (additional elements for assessment)				
102	Is any JPA that has not been added to the JI PoA not verified?	N/A	OK	OK
103	Is the verification based on the monitoring reports of all JPAs to be verified?	N/A	OK	OK
103	Does the verification ensure the accuracy and conservativeness of the emission reductions or enhancements of removals generated by each JPA?	N/A	OK	OK
104	Does the monitoring period not overlap with previous monitoring periods?	N/A	OK	OK
105	If the AIE learns of an erroneously included JPA, has the AIE informed the JISC of its findings in writing?	N/A	OK	OK
Applicable to sample-based approach only				
106	Does the sampling plan prepared by the AIE: (a) Describe its sample selection, taking into account that: (i) For each verification that uses a sample-based approach, the sample selection shall be sufficiently representative of the JPAs in the JI PoA such extrapolation to all JPAs identified for that verification is reasonable, taking into account differences among the characteristics of JPAs, such as:	N/A	OK	OK



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DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	<ul style="list-style-type: none"> - The types of JPAs; - The complexity of the applicable technologies and/or measures used; - The geographical location of each JPA; - The amounts of expected emission reductions of the JPAs being verified; - The number of JPAs for which emission reductions are being verified; - The length of monitoring periods of the JPAs being verified; and - The samples selected for prior verifications, if any? 			
107	Is the sampling plan ready for publication through the secretariat along with the verification report and supporting documentation?	N/A	OK	OK
108	Has the AIE made site inspections of at least the square root of the number of total JPAs, rounded to the upper whole number? If the AIE makes no site inspections or fewer site inspections than the square root of the number of total JPAs, rounded to the upper whole number, then does the AIE provide a reasonable explanation and justification?	N/A	OK	OK
109	Is the sampling plan available for submission to the secretariat for the JISC.s ex ante assessment? (Optional)	N/A	OK	OK
110	If the AIE learns of a fraudulently included JPA, a fraudulently monitored JPA or an inflated number of emission reductions claimed in a JI PoA, has the AIE informed the JISC of the fraud in writing?	N/A	OK	OK



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Table 2 Resolution of Corrective Action and Clarification Requests

Draft report clarifications and corrective action requests by validation team	Ref. to checklist question in table 1	Summary of project participant response	Verification team conclusion
<p><u>Corrective Action Request (CAR) 01.</u> Please provide passports, calibration/verification certificates and calibration/verification schedules on electricity meter EPQS and car scales DVA-80</p>	95 (b)	<p>The requested documents were provided:</p> <ul style="list-style-type: none"> • SD01_ElectricityMeter – this document contains copy of the passport, certificate and evidence of calibration/verification for the electricity meter • SD02_AutomobileScales – this document contains passport and documentation on the calibration/verification for the automobile scales. <p>For additional details please refer to the final PDD and Determination Report: http://ji.unfccc.int/JI_Projects/DB/IPT7L3CLGIZTGGX27T2101W7XCUCWW/Determination/DNV-CUK1315829182.27/historicalDeterminationReport.html</p> <p><u>Additional Response 15/11/2011:</u> Information on calibration/verification frequencies is provided for the measurement equipment in the MR Version 4.0 dated 04/11/2011 in Sections B.1.2. and B.1.3.</p> <p>The calibration/verification for the scales DVA-80 has been delayed in the 2011. The results of the delayed verification did not show any errors in the measuring equipment and, therefore, there is no reason to doubt the data accuracy.</p>	<p><u>Verifier's note on response 1.</u> Issue is not closed. Please provide the calibration/verification schedules. Car scales DVA-80 were calibrated on 01/07/2011 as it is stated in passport for these scales. The calibration certificate #319 dated 25/02/2010 states that the scales had to be calibrated not later than 25/02/2011. Please justify the data accuracy.</p> <p><u>Verifier's note on response 2.</u> Issue is closed based on explanation provided.</p>



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<p><u>Corrective Action Request (CAR) 02.</u> Please provide the copies of documents that are sources of data on electricity and diesel fuel consumption and the amount of coal extracted from waste heaps in the project activity (such as monthly, annual reports).</p>	<p>95 (b)</p>	<p>The requested documents were provided:</p> <ul style="list-style-type: none"> • SD03_ProductionReports – this document contains technical production reports that register coal production by months and are based on operative data supplied by the scales; • SD04_DieselConsumption – this document contains consumption and write-off receipts for the diesel fuel that are the source of fuel consumption data; • SD05_Electricity – this document contains copies of invoices from the energy supply company that are the sources for the electricity consumption data. <p><u>Additional Response 15/11/2011:</u> The MR Version 4.0 dated 04/11/2011 states that electricity consumption is reported through the invoices of supply company and not through production reports. Such method is more accurate and reliable. Copies of these invoices were provided to the verifier in the supporting document SD05_Electricity.</p> <p>The difference between the invoices and production reports is due to the different timing of the data recording. The invoices used in the monitoring are based on the data that are directly read by the supply company through the on-line connection to the meter and data in the production reports are collected manually.</p>	<p><u>Verifier's note on response 1.</u> Issue is not closed. Values for electricity consumption in production reports (SD03) does not correspond with those indicated in the excel file of emission reduction calculation. Please explain this nonconformity.</p> <p><u>Verifier's note on response 2.</u> CAR is closed.</p>
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<p><u>Corrective Action Request (CAR) 03.</u> Please provide the certificates for diesel fuel consumed in the project activity.</p>	95 (b)	<p>The requested documents were provided:</p> <ul style="list-style-type: none"> SD14_DieselCertificate – this document contains an example of the certificate for diesel fuel that is consumed as the result of the project activity. 	OK, CAR is closed.
<p><u>Corrective Action Request (CAR) 04.</u> Please provide the copy of source of data for correction factor for the uncertainty of the waste heaps burning process (see Table 5 of the MR).</p>	95 (c)	<p>The requested documents were provided:</p> <ul style="list-style-type: none"> SD06_RespiratorStudy – this document contains the source study for the uncertainty of the waste heaps burning process. <p>For additional details on selection and application of this value please refer to the final PDD and Determination Report: http://ji.unfccc.int/JI_Projects/DB/IPT7L3CLGIZTGGX27_T2101W7XCUCWW/Determination/DNV-CUK1315829182.27/historicalDeterminationReport.html</p>	Issue is closed based on the analysis of information provided.
<p><u>Corrective Action Request (CAR) 05.</u> Calculation of the total value of parameter $FC_{BE, Coal, y}$ for 2010 is incorrect. Please recheck.</p>	95 (d)	Corrected. Please refer to the updated Monitoring Report (MR) version 4.0 dated 04/11/2011.	Issue is closed.
<p><u>Corrective Action Request (CAR) 06.</u> Some values provided in Tables of the MR are colored in red. Please correct. Please also check data accuracy of these values.</p>	95 (d)	Corrected. Please refer to the updated Monitoring Report (MR) version 4.0 dated 04/11/2011.	Issue is closed based on the corrections made in the MR.



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<p><u>Corrective Action Request (CAR) 07.</u> Please provide the documental proofs of construction start of the coal extraction plant, acceptance of the coal extraction plant, operation start of the coal extraction plant.</p>	<p>101 (a)</p>	<p>The requested documents were provided:</p> <ul style="list-style-type: none"> • SD07_StartDateConstruction – this document contains the approval for starting construction works; • SD08_StartDateOperation – this document contains the approval for performing project activities; • SD09_ComplianceCertificate – this document contains the approval of coal extraction plant in general. <p>For additional details on these documents please refer to the final PDD and Determination Report: http://ji.unfccc.int/JI_Projects/DB/IPT7L3CLGIZTGGX27T2101W7XCUCWW/Determination/DNV-CUK1315829182.27/historicalDeterminationReport.html</p> <p><u>Additional Response 15/11/2011:</u></p> <p>The official commissioning and certification process is a lengthy and bureaucratic procedure that almost always takes place after the actual operation start.</p> <p>The operation start of this project is defined as 01/01/2010 which is the next day after the approval to perform project activities has become valid as fixed in supporting document SD08_StartDateOperation.</p>	<p><u>Verifier's note on response 1.</u> Document SD09 contains the reference to statement of object readiness to exploitation dated 05/02/2010. However the MR states that operation start of the coal extraction plant was on 31/12/2009. Please explain this nonconformity. Please also provide copy of the statement mentioned above.</p> <p><u>Verifier's note on response 2.</u> OK, CAR is closed.</p>
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<p><u>Corrective Action Request (CAR) 08.</u> Please provide documentation that proves the personnel education and competence of personnel working on extraction plant.</p>	101 (a)	<p>The requested documents were provided:</p> <ul style="list-style-type: none"> • SD15_Expertise – this document contains the evidence of periodic safety and technical procedures trainings that are performed on the coal extraction plant as well as sample of documents regarding formal training and expertise that are required from employees; • SD10_MonitoringManual – this document contains the procedures of training and expertise check-ups of the plant personnel. 	Issue is closed based on the analysis of documentation provided.
<p><u>Corrective Action Request (CAR) 09.</u> Please provide the environmental impacts assessment documentation.</p>	101 (a)	<p>The requested documents were provided:</p> <ul style="list-style-type: none"> • SD12_EIA_Monolith – this document contains the environmental impact assessment of the project; • SD13_EIA_Review_Cocnclusion – this document contains the results of the EIA assessment of the project. <p>For additional details on these documents please refer to the final PDD and Determination Report: http://ji.unfccc.int/JI_Projects/DB/IPT7L3CLGIZTGGX27T2101W7XCUCWW/Determination/DNV-CUK1315829182.27/historicalDeterminationReport.html</p>	CAR is closed based on the analysis of documentation provided.
<p><u>Corrective Action Request (CAR) 10.</u> Please justify that the data will be archived and kept for two years after the last transfer of ERUs from the project.</p>	101 (c)	<p>The requested documents were provided:</p> <ul style="list-style-type: none"> • SD11_ArchivingOrder – this document contains the order evidencing that the necessary data on monitoring will be archived and kept for two years after the last transfer of ERUs from the project. 	The documentation is in order. Issue is closed.



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<p><u>Corrective Action Request (CAR) 11.</u> Please provide the copy of agreement with “Luhansk Regional Scientific Industrial Center for Standardization, Metrology and Certification”</p>	<p>101 (c)</p>	<p>The requested documents were provided:</p> <ul style="list-style-type: none"> SD16_MetrologyAgreement – this document contains the copy of the agreement with metrology service. <p><u>Additional Response 15/11/2011:</u> The calibration/verification of the metering equipment in 2010 has been performed on the basis of similar agreements as in 2011. The requested agreement is provided in the updated supporting document SD16_MetrologyAgreement</p>	<p><u>Verifier’s note on response 1.</u> The document provided to the verification team is dated 05/01/2011. Please provide the similar documents that cover all the monitoring period.</p> <p><u>Verifier’s note on response 2.</u> The documentation was provided. Issue is closed.</p>
<p><u>Corrective Action Request (CAR) 12.</u> The values of ERUs in the MR and in the PDD are different. Please explain the origin of the difference or correct.</p>	<p>95 (d)</p>	<p>As it is stated in the Monitoring Report (MR) version 4.0 dated 04/11/2011: "The differences are due to the fact that estimates in the PDD were based on forecasted data for coal content in the waste heap matter and other parameters. Another factor was the necessity to run equipment in the commissioning mode during the initial operation period. As the result the emission reductions are lower than expected which is conservative.". Please refer to section A.7. of the MR, version 4.0 dated 04/11/2011.</p>	<p><u>Issue is closed based on appropriate explanation.</u></p>
<p><u>Clarification Request (CL) 01.</u> In Table on the page 5 please provide the values of emission factors used in emission reduction calculations.</p>	<p>95 (c)</p>	<p>Corrected. Please refer to the updated Monitoring Report (MR) version 4.0 dated 04/11/2011.</p>	<p>CL is closed based on amendments made in the MR.</p>



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<p><u>Clarification Request (CL) 02.</u> In Table 5 the value of carbon content of coal is referred to National Inventory Report of Ukraine 1990-2008, p. 265. Still the relevant information is provided on the page 264 of this document. Please correct.</p>	95 (c)	Corrected. Please refer to the updated Monitoring Report (MR) version 4.0 dated 04/11/2011.	Issue is closed.
<p><u>Clarification Request (CL) 03.</u> Tables in the MR are numbered partly. Please provide numbers and titles for all tables (e.g. those on page 4, 5).</p>	101 (c)	Corrected. Please refer to the updated Monitoring Report (MR) version 4.0 dated 04/11/2011.	OK, CL is closed.
<p><u>Forward Action Request (FAR) 01.</u> There are no calibration/verification schedules at the enterprise. Please provide timeliness of the following calibrations.</p>	95(b)	<p>The enterprise will comply with the requirements to perform periodic calibrations/verifications of the measurement equipment with the frequency specified in the Sections B.1.2. and B.1.3. of the Monitoring Report (MR) version 4.0 dated 04/11/2011. Indicative dates for the next calibrations are provided in the Section B.1.2. of the Monitoring Report (MR) version 4.0 dated 04/11/2011.</p> <p>The requirement and any measures to provide scheduled calibrations/verifications of the measurement devices will be added to the Monitoring Manual and presented before the next verification to the AIE.</p>	This issue should be checked by AIE during next verification.

