

# VERIFICATION REPORT UNITED CARBON FINANCE LTD.

# **VERIFICATION OF THE**

WASTE HEAPS DISMANTLING BY "COAL PRODUCING FIRM "VOSTOK-UGOL AG" LLC WITH THE AIM OF DECREASING GREENHOUSE GASES EMISSIONS INTO THE ATMOSPHERE SECOND PERIODIC FOR THE PERIOD 01/07/2009 – 31/12/2010

REPORT NO. UKRAINE-VER/0676/2012

**BUREAU VERITAS CERTIFICATION** 

Report No:	UKRAINE-ver/0676/2012
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#### **VERIFICATION REPORT**

Date of first issue: 07/08/2012	Organizational unit: Bureau Veritas Certification		
	Holding SAS		
Client:	Client ref.:	٦	
United Carbon Finance Ltd.	Tahir Musayev		

Summary

Bureau Veritas Certification has made the second periodic verification of the "Waste Heaps Dismantling by "Coal Producing Firm "Vostok-Ugol AG" LLC with the Aim of Decreasing Greenhouse Gases Emissions into the Atmosphere" project of Coal Producing Firm "Vostok-Ugol AG" located in Sverdlovsk and Rovenky Towns, Luhansk regions, Ukraine, and applying 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 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 against 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 documents. 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 issued totalize 1955673 tonnes of CO2 equivalent for the monitoring period from 01/07/2009 to 31/12/2010.

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/0676/2012	Subject	ct Group:				
Project title: "Waste Heaps Disman" "Vostok-Ugol AG" LLC Greenhouse Gases Em	with the	Aim of Decreasing				
Work carried out by:	. *		W .	,		
Kateryna Zinevych - Te				3		
Sergiy Kustovskyy - Te			1			
Vladimir Lukin – Team Work reviewed by:	member, T	echnical specialist				
Ivan Sokolov - Internal			X	No distribution without	permissio	n from the
Alexey Kulakov - Tech	nical Speci	alist		Client or responsible or	rganizatio	nal unit
Work approved by:			11 - 12		<del>- 27</del> 71	
Ivan Sokolov - Climate	Change O	perational	cation	Limited distribution		
Manager	Bure	au Vertae	1			
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#### 1 INTRODUCTION

United Carbon Finance Ltd. has commissioned Bureau Veritas Certification to verify the emissions reductions of its JI project "Waste Heaps Dismantling by "Coal Producing Firm "Vostok-Ugol AG" LLC with the Aim of Decreasing Greenhouse Gases Emissions into the Atmosphere" (hereafter called "the project") at Sverdlovsk, Rovenky towns, 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 project design document, the project's baseline study, monitoring plan and monitoring report, 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 Lead Verifier

Sergiy Kustovskyy

Bureau Veritas Certification Team Member, Climate Change Verifier

Vladimir Lukin

Bureau Veritas Certification Technical specialist



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This determination report was reviewed by:

Ivan Sokolov Bureau Veritas Certification Internal Technical Reviewer

Alexey Kulakov Bureau Veritas Certification Technical Specialist

#### 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 19 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 United Carbon Finance Ltd. and additional background documents related to the project design and baseline, i.e. country Law, Project Design Document (PDD) and/or 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) 01, 02 and project as described in the determined PDD.

#### 2.2 Follow-up Interviews

On 06/08/2012 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 United Carbon Finance Ltd. and "Coal Producing Firm "Vostok-Ugol AG" LLC were interviewed (see References). The main topics of the interviews are summarized in Table 1.



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Table 1 Interview topics

Interviewed	Interview topics
organization	
"Coal Producing	Organizational structure
Firm "Vostok- Ugol AG" LLC	Responsibilities and authorities
	Roles and responsibilities for data collection and processing
	Installation of equipment
	Data logging, archiving and reporting
	Metering equipment control
	Metering record keeping system, database
	IT management
	Training of personnel
	Quality management procedures and technology
	Internal audits and check-ups
United Carbon	Baseline methodology
Finance Ltd.	Monitoring plan
	Monitoring report
	Excel spreadsheets

# 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.



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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 10 Corrective Action Requests and 2 Clarification Requests.

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 previous verification.

#### 3.2 Project approval by Parties involved (90-91)

Written project approval by the Ukraine #2431/23/7 dated 31/08/2012 has been issued by the State Environmental Investment Agency of Ukraine.

Written project approval by the Netherland Designated Focal Point was received for the proposed project, reference 2011JI46, dated 22/11/2011.

The abovementioned written approvals are unconditional.

The identified areas of concern as to the Project approval by Parties involved, project participants responses and Bureau Veritas Certification's conclusions are described in Appendix A to this report (refer to CAR 01, CAR 02).

#### 3.3 Project implementation (92-93)

The proposed project is a progressive project that envisages processing and dismantling of the waste heaps, which are located in Luhansk Region of Ukraine.

The main idea of the project is to process waste heaps originated due to coal extraction from mines. Coal extraction from the mine's waste heap will prevent greenhouse gas emissions into the atmosphere as if in the



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case of spontaneous burning and will produce additional amount of coal instead of its mining. Emission reductions due to the implementation of this project will come from three major sources:

- Removing the source of green-house gas emissions from the burning / slow burning waste heap by the extraction of non-combusted coal contained in a waste heap;
- Negative leakage through reduced fugitive emissions of methane due to the replacement of coal that would have been mined, by the coal extracted from the heap under the project activity.
- Reduce electricity consumption at waste heap dismantling in comparison with energy consumption at coal mine.

The Project is aimed at coal extraction from the mine's waste heaps of Luhansk Region of Ukraine. These waste heaps have been accumulated some time before the start of the project activity from the mining waste of underground mines. Project activity will prevent greenhouse emissions into the atmosphere during combustion of the heaps and will contribute an additional amount of coal, without the need for mining. The Project activities include installation of the equipment for coal extraction and beneficiation near the processing waste heaps and will perform preparation, loading special machinery that transportation of the rock from the waste heaps to the beneficiation factory. After purifying of the matter, the extracted coal will be sold for heat and power generation and the remaining bare rock will be utilized for land engineering and road building.

The project has been operational for the whole monitoring period.

The identified areas of concern as to the project implementation, project participants responses and Bureau Veritas Certification's conclusions are described in Appendix A to this report (refer to CL 01, CL 02).

# 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, key factors influencing the baseline emissions and the activity level of the project and the emissions as well as risks associated with the project were taken into account, as appropriate.

Data sources used for calculating emission reductions are clearly identified, reliable and transparent.

Emission factors, including default emission factors, are selected by carefully balancing

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accuracy and reasonableness, and appropriately justified of the choice.

The calculation of emission reductions 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 03 - 06).

## 3.5 Revision of monitoring plan (99-100)

Not applicable

## 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 managemet, project participants responses and Bureau Veritas Certification's conclusions are described in Appendix A to this report (refer to CARs 07 - 10).

# **3.7 Verification regarding programmes of activities (102-110)** Not applicable.

#### 4 VERIFICATION OPINION

Bureau Veritas Certification has performed the second periodic verification of the "Waste Heaps Dismantling by "Coal Producing Firm "Vostok-Ugol AG" LLC with the Aim of Decreasing Greenhouse Gases Emissions into the Atmosphere" 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.



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The verification consisted of the following three phases: i) desk review of the monitoring report against the 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 United Carbon Finance Ltd is responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions of the project on the basis set out within the project Monitoring Plan indicated in the final PDD version. 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 Project Monitoring Report version 2 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. 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 01.07.2009 to 31.12.2010

For the period from 01.07.2009 to 31.12.2009

Baseline emissions : 577909 tonnes of CO2 equivalent Leakage :- 175354 tonnes of CO2 equivalent Project emissions : 1857 tonnes of CO2 equivalent Emission Reductions : 751406 tonnes of CO2 equivalent

For the period from 01.01.2010 to 31.12.2010

Baseline emissions : 923518 tonnes of CO2 equivalent Leakage :- 283781 tonnes of CO2 equivalent Project emissions : 3032 tonnes of CO2 equivalent Emission Reductions : 1204267 tonnes of CO2 equivalent

#### Total for the monitoring period

Baseline emissions : 1501427 tonnes of CO2 equivalent Leakage : -459135 tonnes of CO2 equivalent Project emissions : 4889 tonnes of CO2 equivalent Emission Reductions : 1955673 tonnes of CO2 equivalent

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#### **5 REFERENCES**

#### **Category 1 Documents:**

Documents provided by United Carbon Finance Ltd that relate directly to the GHG components of the project.

- /1/ Project Design Document "Waste Heaps Dismantling by "Coal Producing Firm "Vostok-Ugol AG" LLC with the Aim of Decreasing Greenhouse Gases Emissions into the Atmosphere" version 3.0 dated 04/07/2012
- /2/ Monitoring Report for 01/07/2009-31/12/2010 "Waste Heaps Dismantling by "Coal Producing Firm "Vostok-Ugol AG" LLC with the Aim of Decreasing Greenhouse Gases Emissions into the Atmosphere", version 01 dated 10/08/2012.
- /3/ Monitoring Report for 01/07/2009-31/12/2010 "Waste Heaps Dismantling by "Coal Producing Firm "Vostok-Ugol AG" LLC with the Aim of Decreasing Greenhouse Gases Emissions into the Atmosphere", version 02 dated 03/09/2012.
- /4/ Emission Reductions Calculation version 2 excel file dated 03/09/2012
- /5/ Letter of Approval #2431/23/7 for the project "Waste Heaps Dismantling by "Coal Producing Firm "Vostok-Ugol AG" LLC with the Aim of Decreasing Greenhouse Gases Emissions into the Atmosphere" issued by State Environmental Investment Agency of Ukraine dated 31/08/2012.
- /6/ Letter of Approval № 2011JI46 dated 22/11/2011 for the project "Waste Heaps Dismantling by "Coal Producing Firm "Vostok-Ugol AG" LLC with the Aim of Decreasing Greenhouse Gases Emissions into the Atmosphere" issued by DFP of the Netherlands.

#### **Category 2 Documents:**

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

- /1/ Order # 8 dated 27/02/2008 "On commissioning of concentration plant", Sverdlovsk city, "Coal Producing Firm "Vostok-Ugol AG" LLC
- /2/ Instruction dated 28/03/2008 on monitoring of main enterprise activity parameters for implementation of JI project within Kyoto Protocol mechanisms, "Coal Producing Firm "Vostok-Ugol AG" LLC
- /3/ Order # 19 dated 27/02/2008 "On setting the terms of documentation storage", Sverdlovsk city, "Coal Producing Firm "Vostok-Ugol AG" LLC
- /4/ Photo-General view of waste heap, "Coal Producing Firm "Vostok-Ugol AG" LLC
- /5/ Photo-General view of processing facility, "Coal Producing Firm "Vostok-Ugol AG" LLC



- /6/ Certificate on sampling and testing dated 04/12/2009, registration # UA 06420/2009/2.1
- /7/ Certificate on sampling and testing dated 04/12/2009, registration # UA 06373/2009/2.1
- /8/ Certificate on sampling and testing dated 08/06/2010, registration # UA 3393/2010/2.1
- /9/ Protocol on testing dated 14/09/2010, registration # UA 5512/2010/3.1
- /10/ Certificate on sampling and testing dated 24/09/2010, registration # UA 5808/2010/2.1
- /11/ Statement on acceptance/replacement/technical check of measuring equipment at power units up to 1000 V dated 14.01.2009
- /12/ Statement dated 14/01/2009 on measuring equipment sealing
- /13/ Technical passport on railway scales type SV-150 "Lykhty-U", fabrication # 69 at Donetsk railway Dolzhanska station. Passport dated 06/03/2006
- /14/ Photo-General view of railway scales at Donetsk railway Dolzhanska station
- /15/ Photo–Display of railway scales at Donetsk railway Dolzhanska station
- /16/ Technical passport on railway scales type VTV-1ST, fabrication # 108 at Donetsk railway Valianovskyi station. Passport dated 06/03/2006
- /17/ Photo–General view of railway scales at Donetsk railway Valianovskyi station
- /18/ Photo–Display of railway scales at Donetsk railway Valianovskyi station
- /19/ Automatic system for commercial measurement of power consumption, "Coal Producing Firm "Vostok-Ugol AG" LLC, working project ACKOE.56.070907. PΠ, Luhansk, 2007
- /20/ Manual ЕД 5244-336030 IE on Automatic system for commercial measurement of power consumption
- /21/ Passport on multifunctional power meters SL 7000 Smart
- /22/ Photo-Multifunctional power meter SL 7000 Smart, fabrication # 36147803, type SL781C071, 2008
- /23/ Protocol # y04728690/8.088-2009Π dated 06/04/2009 on metrological study results
- /24/ Photo–ATdata multifunctional power meters commercial data recording system, communication device Ky-1-2-FP, # 653
- /25/ Passport ЕД 5244-336052 ПС dated 2008 on communication device КУ-X-X-FP
- /26/ Acceptance certificate dated 19/12/2008 on communication device КУ-1-2-FP, fabrication # 653
- /27/ Passport dated 12/07/2005 on multitariff active and reactive power meter EMS 132.11.4
- /28/ Acceptance certificate dated 19/12/2008 on multitariff active and reactive power meter EMS 132.11.4, fabrication # 244518. Fabrication date—17/02/2005
- /29/ Order # 24-Π dated 01/04/2008 on object commissioning"
- /30/ Order # 47-Π dated 05/12/2008 on object commissioning
- /31/ Certificate on state metrological attestation # C8.088 2009 dated 06/04/2009. Automatic system for commercial measurement of power consumption on the basis of programme device "ATdata multifunctional power meters commercial data recording system"
- /32/ Statement dated 17/04/2009 on testing of "Automatic system for commercial



- measurement of power consumption of Coal Producing Firm "Vostok-Ugol AG" LLC"
- /33/ EIA of Concentration plant construction project design, Coal Producing Firm "Vostok-Ugol AG" LLC", 2006
- /34/ Order # 35 dated 27/09/2007 on working place safety attestation results
- /35/ Permit on increased risk works execution extension # 660.10.09-10.10.3 dated 12/11/2010
- /36/ Billing statement # 179 dated 04/07/2008, Coal Producing Firm "Vostok-Ugol AG" LLC"
- /37/ Invoice # 184 dated 09/07/2008, Coal Producing Firm "Vostok-Ugol AG" LLC"
- /38/ Billing statement # 195 dated 18/07/2008, Coal Producing Firm "Vostok-Ugol AG" LLC"
- /39/ Acceptance-transmitting statement dated 31/07/2008 on diesel fuel delivered in July 2008
- /40/ Billing statement # 0646/7/1 dated 01/08/2008, Coal Producing Firm "Vostok-Ugol AG" LLC"
- /41/ Received railway invoices register for August 2008, Coal Producing Firm "Vostok-Ugol AG" LLC"
- /42/ Received railway invoices register for September 2008, Coal Producing Firm "Vostok-Ugol AG" LLC"
- /43/ Received railway invoices register for November 2008, Coal Producing Firm "Vostok-Ugol AG" LLC"
- /44/ Received railway invoices register for May 2008, Coal Producing Firm "Vostok-Ugol AG" LLC"
- /45/ Received railway invoices register for April 2009, Coal Producing Firm "Vostok-Ugol AG" LLC"
- /46/ Received railway invoices register for August 2009, Coal Producing Firm "Vostok-Ugol AG" LLC"
- /47/ Received railway invoices register for March 2009, Coal Producing Firm "Vostok-Ugol AG" LLC"
- /48/ Received railway invoices register for September 2009, Coal Producing Firm "Vostok-Ugol AG" LLC"
- /49/ Statement dated 01/01/2010 on consumed electricity
- /50/ Received railway invoices register for February 2010, Coal Producing Firm "Vostok-Ugol AG" LLC"
- /51/ Received railway invoices register for July 2010, Coal Producing Firm "Vostok-Ugol AG" LLC"
- /52/ Received railway invoices register for August 2010, Coal Producing Firm "Vostok-Ugol AG" LLC"
- /53/ Daily data of goods production for December 2010, Coal Producing Firm "Vostok-Ugol AG" LLC"
- /54/ Daily data of goods production for December 2009, Coal Producing Firm "Vostok-Ugol AG" LLC"
- /55/ Daily data of goods production for December 2008, Coal Producing Firm "Vostok-Ugol AG" LLC"
- /56/ Concentration plant operational parameters from March 2008 to November 2011, Coal Producing Firm "Vostok-Ugol AG" LLC"



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/57/ Waste heaps processing 2008-2010, Coal Producing Firm "Vostok-Ugol AG" LLC"

#### Persons interviewed:

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

- /1/ Degtyarenko Igor Director for Operations Vostok-Ugol AG
- /2/ Davydov Alexander Safety engineer Vostok-Ugol AG
- /3/ Pozdnyakov Andrey system administrator Vostok-Ugol AG
- /4/ Vasilinenko Julia Accountant Vostok-Ugol AG
- /5/ Tahir Musayev representative of the project Developer United Carbon Finance LTD



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## APPENDIX A: 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
	provals by Parties involved		Conclusion	Conclusion
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?	Please provide the Letter of Approval issued by the DFP of Ukraine. Please also specify ITL of the project in the MR.  Corrective Action Request (CAR) 02.	CAR 01 CAR 02	OK OK
91	Are all the written project approvals by Parties involved unconditional?	See CAR 01 above.	OK	OK
Project im	plementation			
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?	Clarification Request (CL) 01.  Please clarify whether dismantling facility was operational for the whole monitoring period or were there any stoppages in its operation?  Clarification Request (CL) 02.  In most cases facilities applying the same technology as in the Project do not operate in winter time. On p.9 of the MR it is stated that "If some main project equipment has not been	CL 01 CL 02	OK OK



DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
		working during monitoring ()emission reductions for this period will be assumed equal to 0. However, excel calculation file provides the calculation for winter months. Please explain.		
93	What is the status of operation of the project during the monitoring period?	The project has been operational for the whole monitoring period.	OK	OK
Complian	ce 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?	Yes, the monitoring occurs in accordance with the monitoring plan included in the PDD.	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 associated with the project taken into account, as appropriate?	•	OK	OK



DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
95 (b)	Are data sources used for calculating emission reductions or enhancements of net removals clearly identified, reliable and transparent?	Corrective Action Request (CAR) 03.  Please exclude reference 2 from p.3 of the Monitoring report.	CAR 03	OK
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?	Corrective Action Request (CAR) 04. Reference 6 does not contain the referred value 0.85. Please correct or clarify how the value was achieved. Corrective Action Request (CAR) 05. For the parameter <i>EF<sub>CH4</sub></i> , <i>cM</i> please use the latest version of NIR for 1990-2010. Please check the reference 11. Corrective Action Request (CAR) 06. Please check and correct the reference 11	CAR 04 CAR 05 CAR 06	OK OK
95 (d)	Is the calculation of emission reductions or enhancements of net removals based on conservative assumptions and the most plausible scenarios in a transparent manner?	Yes, the calculation of emission reductions based on conservative assumptions and the most plausible scenarios in a transparent manner.	OK	OK
	e to JI SSC projects only	NI/A	014	014
96	Is the relevant threshold to be classified as JI SSC project not exceeded during the monitoring	N/A	OK	OK



DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	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?			
	e to bundled JI SSC projects only			
97 (a)	Has the composition of the bundle	N/A	OK	OK
	not changed from that is stated in			
07 (b)	F-JI-SSCBUNDLE?	NI/A	OK	OK
97 (b)	If the determination was conducted on the basis of an overall	N/A	OK	OK
	monitoring plan, have the project			
	participants submitted a common			
	monitoring report?			
98	If the monitoring is based on a	N/A	OK	OK
	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			



DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	final in the past?			
	of monitoring plan			
Applicable	e only if monitoring plan is revised	by project participant		
99 (a)	Did the project participants provide an appropriate justification for the proposed revision?	N/A	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?	N/A	OK	OK
Data mana	agement			
101 (a)	Is the implementation of data collection procedures in accordance with the monitoring plan, including the quality control and quality assurance procedures?	procedures is in accordance with the monitoring plan, including the quality control and quality assurance procedures.	OK	OK
101 (b)	Is the function of the monitoring equipment, including its calibration status, in order?	Please provide passport and calibration certificates that ensure accuracy of measuring	CAR 07 CAR 08 CAR 09 CAR 10	OK OK OK
		in the monitoring period for scales weighing extracted coal.	CAR IU	OK



DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
		Corrective Action Request (CAR) 08.  Please provide passport and calibration certificate for electric power meters.  Corrective Action Request (CAR) 09.  Please provide the documental evidences that training of personnel was conducted in each year of the monitoring period.  Corrective Action Request (CAR) 10.  Please provide the numbers for all the tables in the MR (see table on p.4 of the MR).		
101 (c)	Are the evidence and records used for the monitoring maintained in a traceable manner?	The evidences and records used for the	OK	OK
101 (d)	Is the data collection and management system for the project in accordance with the monitoring plan?	, , ,	OK	OK
Verification		(additional elements for assessment)		
102	Is any JPA that has not been added to the JI PoA not verified?		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	N/A	OK	OK



DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	the emission reductions or enhancements of removals generated by each JPA?			
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	e 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



DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
Taragraph	<ul> <li>The types of JPAs;</li> <li>The complexity of the applicable technologies and/or measures used;</li> <li>The geographical location of each JPA;</li> <li>The amounts of expected emission reductions of the JPAs being verified;</li> <li>The number of JPAs for which emission reductions are being verified;</li> <li>The length of monitoring periods of the JPAs being verified; and</li> <li>The samples selected for prior</li> </ul>		Conclusion	Conclusion
107	verifications, if any?  Is the sampling plan ready for publication through the secretariat along with the verification report and supporting documentation?		ОК	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	N/A	OK	OK



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DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	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?			
109	Is the sampling plan available for	N/A	OK	OK
	submission to the secretariat for			
	the JISC.s ex ante assessment?			
	(Optional)			
110	If the AIE learns of a fraudulently	N/A	OK	OK
	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?			



 Table 2 Resolution of Corrective Action and Clarification Requests

Draft report clarification and corrective action requests by verification team	Ref. to checkli st questio n in table 1	Summary of project participant response	Verification team conclusion
Corrective Action Request (CAR) 01.  Please provide the Letter of Approval issued by the DFP of Ukraine. Please also specify ITL of the project in the MR.		Letter of Approval issued by the DFP of Ukraine is provided.	LoAs were provided to the verification team. Issue is closed.



Corrective Action Request (CAR) 02. Please specify ITL of the project in the MR.	In accordance with JOINT IMPLEMENTATION DETERMINATION AND VERIFICATION MANUAL paragraphs 90 "The AIE should assess whether at least one written project approval by a Party involved in the JI project, other than the host Party(ies), has been issued by the DFP of that Party when submitting the first verification report to the secretariat for publication in accordance with paragraph 38 of the JI guidelines, at the latest". Project approval by Parties involved is provided to the verification team.	Issue is closed.
Corrective Action Request (CAR) 03.  Please exclude reference 2 from p.3 of the Monitoring report.	Excluded	CAR is closed.



Corrective Action Request (CAR) 04. Reference 6 does not contain the referred value 0.85. Please correct or clarify how the value was achieved.	Reference is corrected. The referred value 0.85 kg/m3 is taken as an average between two suggested types of diesel: summer and winter <a href="http://elarum.ru/info/standards/gost-305-82/table 2">http://elarum.ru/info/standards/gost-305-82/table 2</a> from GOST 305-82 Diesel Fuel. Specifications. Values are converted from kg/m3 into kg/l.	CAR is closed based on the appropriate explanation of the origin of requested value.
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Corrective Action Request (CAR) 05. For the parameter <i>EF<sub>CH4</sub></i> , <i>cM</i> please use the latest version of NIR for 1990-2010. Please check the reference 11.	In latest NIR of Ukraine 1990-2010 asserts that there is coefficient of methane emission for coal that is already mined 2,4 m3/t (p.122). 2,4 m3/t (p.122) is a coefficient of emissions of methane in the post-coal mining whereas in our calculations we use another coefficient such as average rate for fugitive methane emissions from coal mining. The principal difference between these two factors is one takes into account the emissions of methane during the mining, while another - post production. The period after the coal is not considered in the project. That is why we use average rate for fugitive methane emissions from coal mining from latest NIR where the coefficient is presented. Reference 11 is checked.	Explanation provided was analyzed by the verification team and found to be appropriate. CAR is closed.
Corrective Action Request (CAR) 06.  Please check and correct the reference  11.	See answer to CAR 05.	Closed.



Corrective Action Request (CAR) 07. Please provide passport and calibration certificates that ensure accuracy of measuring in the monitoring period for scales weighing extracted coal.	Passport and calibration certificates that ensure accuracy of measuring in the monitoring period for scales is provided. In MR v1 was made a mistake in the dates of calibration. The mistake is corrected.	Issue is closed based on the analysis of documentation provided.
Corrective Action Request (CAR) 08.  Please provide passport and calibration certificate for electric power meters.	Passport and calibration certificate for electric power meters are provided.	Issue is closed based on the analysis of documentation provided.
Corrective Action Request (CAR) 09.  Please provide the documental evidences that training of personnel was conducted in each year of the monitoring period.	The documental evidences that training of personnel was conducted according to schedule are provided.	Issue is closed based on the analysis of documentation provided.
Corrective Action Request (CAR) 10. Please provide the numbers for all the tables in the MR (see table on p.4 of the MR).	The numbers for all the tables in the MR is provided.	CAR is closed based on the corrections in the MR.
Clarification Request (CL) 01. Please clarify whether dismantling facility was operational for the whole monitoring period or were there any stoppages in its operation?	Scheduled downtimes for repairs and due to the severe frosts is presented in sheet "data" of excel file and in section B.1 of MR.	CL is closed



Clarification Request (CL) 02. In most cases facilities applying the same technology as in the Project do not operate in winter time. On p.9 of the MR it is stated that "If some main project equipment has not been working during monitoring ()emission reductions for this period will be assumed equal to 0. However, excel calculation file provides the calculation for winter months. Please explain.	The calculation of emission reductions during the winter months takes place only when there is a sale of coal from the stock. Thus in the calculation takes into account only the amount of coal that has been enriched and sold to the final buyer in Ukraine.	CL is closed
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