

DETERMINATION REPORT SIA "VIDZEME EKO"

DETERMINATION OF THE WASTE HEAP #1, #2, #3 AND #5 DISMANTLING OF FRUNZE MINE WITH THE AIM OF DECREASING GREENHOUSE GASES EMISSION INTO THE ATMOSPHERE

REPORT NO. UKRAINE-DET/0740/2012 REVISION NO. 01 BUREAU VERITAS CERTIFICATION



DETERMINATION REPORT: WASTE HEAP #1, #2, #3 AND #5 DISMANTLING OF FRUNZE MINE WITH THE AIM OF DECREASING GREENHOUSE GASES EMISSION INTO THE ATMOSPHERE

Organizational unit: Bureau Veritas Certification Holding SAS
^{Client} ref.: Victor Tkachenko

Summary:

Bureau Veritas Certification has made the determination of the "Waste heap #1, #2, #3 and #5 dismantling of Frunze mine with the aim of decreasing greenhouse gases emission into the atmosphere" project of SIA "Vidzeme Eko" located in Yasenivskyi urban village, Rovenky borough council, Luhansk region, Ukraine 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 determination scope is defined as an independent and objective review of the project design document, the project's baseline study, monitoring plan and other relevant documents, and consisted of the following three phases: i) desk review of 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 determination report and opinion. The overall determination, from Contract Review to Determination Report & Opinion, was conducted using Bureau Veritas Certification internal procedures.

The first output of the determination process is a list of Clarification and Corrective Action Requests (CL and CAR), presented in Appendix A. Taking into account this output, the project proponent revised its project design document.

In summary, it is Bureau Veritas Certification's opinion that the project correctly applies Guidance on criteria for baseline setting and monitoring and meets the relevant UNFCCC requirements for the JI and the relevant host country criteria.

Report No.: Ukraine-det/0740/2012	Subject Group:	Indexing terms
Project title: Waste heap #1, #2, #3 frunze mine with the greenhouse gases atmosphere	0	
Work carried out by: Vyacheslav Yeriomin – Verifier Serhii Kustovskyi – Team		D No distribution without permission from the Client or responsible organizational unit
^{Work reviewed by:} Ivan Sokolov - Internal Dmytro Balyn – technic		Limited distribution
Work approved by: Ivan Sokolov - Operational Manager Date of this revision: Rev. No.: Number of pages: Date of this revision: Rev. No.:		Unrestricted distribution
18/10/2012 01	52	

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1 INTRODUCTION

SIA "Vidzeme Eko" has commissioned Bureau Veritas Certification to determine its JI project "Waste heap #1, #2, #3 and #5 dismantling of Frunze mine with the aim of decreasing greenhouse gases emission into the atmosphere" (hereafter called "the project") at Yasenivskyi urban village, Rovenky borough council, Luhansk region, Ukraine.

This report summarizes the findings of the determination 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

The determination serves as project design verification and is a requirement of all projects. The determination is an independent third party assessment of the project design. In particular, the project's baseline, the monitoring plan (MP), and the project's compliance with relevant UNFCCC and host country criteria are determined in order to confirm that the project design, as documented, is sound and reasonable, and meets the stated requirements and identified criteria. Determination is a requirement for all JI projects and is seen as necessary to provide assurance to stakeholders of the quality of the project and its intended generation of emission reduction units (ERUs).

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 determination scope is defined as an independent and objective review of the 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 determination is not meant to provide any consulting towards the Client. However, stated requests for clarifications and/or corrective actions may provide input for improvement of the project design.

1.3 Determination team

The determination team consists of the following personnel:

Vyacheslav Yeriomin

Bureau Veritas Certification Team Leader, Climate Change Verifier

Serhii Kustovskyi

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Bureau Veritas Certification Climate Change Verifier

This determination report was reviewed by:

Ivan Sokolov Bureau Veritas Certification, Internal reviewer Dmytro Balyn Bureau Veritas Certification, Technical Specialist

2 METHODOLOGY

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

In order to ensure transparency, a determination 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 determination and the results from determining the identified criteria. The determination protocol serves the following purposes:

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

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

2.1 Review of Documents

The Project Design Document (PDD) submitted by SIA "Vidzeme Eko" and additional background documents related to the project design and baseline. country Law, Guidelines for users i.e. of the ioint Approved implementation project design document form, CDM methodology and/or Guidance on criteria for baseline setting and monitoring, Kyoto Protocol, Clarifications on Determination Requirements to be Checked by an Accredited Independent Entity were reviewed.

To address Bureau Veritas Certification corrective action and clarification requests, SIA "Vidzeme Eko" revised the PDD and resubmitted it on 17/10/2012.

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The determination findings presented in this report relate to the project as described in the PDD version(s) 2.0.

2.2 Follow-up Interviews

On 05/10/2012 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 PE "Spetsmontazh FC" and SIA "Vidzeme Eko" were interviewed (see References). The main topics of the interviews are summarized in Table 1.

Interviewed organization	Interview topics
PE	Project History
"Spetsmontazh	Project Approach
FC"	Project boundary
	Implementation Schedule
	Organization structure
	Authorities and responsibilities
	Training of personnel
	Quality management procedures and technologies
	Records on rehabilitation/implementation of equipment
	Metering equipment control
	Metering record keeping system, database
	Technical documentation
	Monitoring plan and procedures
	Permits and licenses
CONSULTANT	Baseline methodology
SIA "Vidzeme	Monitoring plan
Eko"	Additionality proofs
	 Calculation of emission reductions

Table 1Interview topics

2.3 Resolution of Clarification and Corrective Action Requests

The objective of this phase of the determination 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 project design.

If the determination team, in assessing the PDD and supporting documents, identifies issues that need to be corrected, clarified or improved with regard to JI project requirements, it will raise these issues and inform the project participants of these issues in the form of:



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(a) Corrective action request (CAR), requesting the project participants to correct a mistake in the published PDD that is not in accordance with the (technical) process used for the project or relevant JI project requirement or that shows any other logical flaw;

(b) Clarification request (CL), requesting the project participants to provide additional information for the determination team to assess compliance with the JI project requirement in question;

(c) Forward action request (FAR), informing the project participants of an issue, relating to project implementation but not project design, that needs to be reviewed during the first verification of the project.

The determination 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 determination.

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

3 PROJECT DESCRIPTION

Proposed project consists in full dismantling of waste heaps with sorting and enrichment of obtained coal containing rock mass.

Boundaries of proposed project cover one dismantled waste heaps #1, 2, 3, 5 of former Frunze mine and enrichment plant "Yasenivska". "Spetsmontazh FC" Ltd buys coal containing rock mass from waste heaps and processes it at enrichment plant "Yasenivska", on sub-contract relations basis.

Technologies employed in the project activity are described below

Bulldozers rise to the top of the dump on its tail section. Dismantling of dump with bulldozers is carried by horizontal layers, after lowering the height of dump to 25-30 m, allowed dismantling by slope (15 °) layers. A combined method for the dump dismantling is used, when after decline by bulldozers to lower layer height, in which entrance road can be constructed, further dismantling is carried out by excavators with direct loading rock into vehicles (dump trucks).

On the second stage, the rock mass is delivered to the enrichment plant "Volodarska" for further enrichment. The rock mass is supplied to the inertial screening sifter for the pre-classification by class of 100 mm. After the pre-classification, the coal mass delivered to the preparatory screening to sifter GIL-52a by dry or wet mode. Beneficiation of large class 13 mm is made on heavy media separator STK 32-55010, and beneficiation of small class 3-13 mm - at hydrocyclone GTSM-63011. Next, washing of the suspension of beneficiation products and

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dehydrating products by dressing screens and centrifuge take place, regeneration suspension at electromagnetic separator. Thus the water in this process is used in closed loop. Beneficiation products (coal concentrate) are transported by conveyor belt into bins for further shipment to the consumer. Waste is transported to the flat dump

The project capacity of the complex allows to process 3 800 000 m3 of the rocks per year.

The proposed project is aimed at reducing anthropogenic emissions. Emission reductions created by:

- Elimination of greenhouse gases sources associated with waste heaps burning, by extracting coal from the rock dumps;

- Reduction of uncontrolled methane emissions due to replacement of coal that would have been extracted through mining;

- Reduction of electricity consumption at waste heap dismantling in comparison to electricity consumption at coal mine.

Identified problem areas for project descriptions, project participants' responses and conclusions of Bureau Veritas Certification are described in Annex A (refer to CAR01, CAR02, CL01)

4 DETERMINATION CONCLUSIONS

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

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

The Clarification and Corrective Action Requests are stated, where applicable, in the following sections and are further documented in the Determination Protocol in Appendix A. The determination of the Project resulted in 14 Corrective Action Requests and 2 Clarification Requests.

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

4.1 **Project approvals by Parties involved (19-20)**

The project has already received Letter of Endorsement #2929/23/7 dated 05/10/2012 issued by State Environmental Investment Agency.

The Bureau Veritas Certification obtained Letter of Endorsement from SIA "Vidzeme-Eko" and doesn't doubt in its authenticity.

As for this time no written project approvals of the project from the Parties Involved are available (see CAR04 pending till the Host Party LoA received). After receiving Determination Report from the Accredited Independent Entity (AIE) project documentation will be submitted to the Ukrainian Designated Focal Point (DFP) which is State Environment Investment Agency for receiving the Letter of Approval.

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The written approvals from the other Party will be obtained later on.

Identified problem areas for written project approvals, project participants' responses and conclusions of Bureau Veritas Certification are described in Annex A (refer to CAR03, CAR04).

4.2 Authorization of project participants by Parties involved (21)

In accordance with paragraph 21 of the DVM the assessment of this area focuses on whether each of the legal entities listed as project participants in the PDD is authorized by a Party involved, which is also listed in the PDD.

Authorisation of the project participants by Parties involved is expected through a written project approval, see CAR05 that is pending

4.3 Baseline setting (22-26)

The PDD explicitly indicates that using a methodology for baseline setting and monitoring developed in accordance with appendix B of the JI guidelines (hereinafter referred to as JI specific approach) was the selected approach for identifying the baseline.

The PDD provides a detailed theoretical description in a complete and transparent manner, as well as justification, that the baseline is established:

(a) By listing and describing the following plausible future scenarios on the basis of conservative assumptions and selecting the most plausible one:

Scenario 1. Continuation of existing situation

This scenario does not anticipate any activities and therefore does not face any barriers.

<u>Scenario 2. Direct energy production from the heat energy of burning</u> <u>waste heap</u>

Technological barrier:

This scenario is based on the highly experimental technology, which has not been implemented even in a pilot project. It is also not suitable for all waste heaps as the project owner will have to balance the energy resource availability (i.e. waste heap location) and the location of the energy user. On-site generation of electricity addresses this problem but requires additional interconnection engineering. In general this technology has yet to prove its viability. In addition it does not allow the control and management of the emitted gases. This technology can be applied only in the presence of dumps with developed combustion centre. Even if the

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probability of burning rock dump is very high, it is currently impossible to predict the time of its outbreak and therefore predict the start of the use of thermal energy released during its combustion.

Investment barrier:

Investment into unproven technology carries a high risk. In case of Ukraine, which carries a high country risk, investment into such unproven energy projects are less likely to attract investors than some other opportunities in the energy sector with higher returns. The pioneering character of the project may appeal to development programmes and governmental incentives but cost of the produced energy is likely to be much higher than alternatives.

<u>Scenario 3. Production of construction materials from waste heap matter</u> Technological barrier:

This scenario is based on known technology, however, this technology is not currently available in Ukraine and there is no evidence that such projects will be implemented in the near future. It is also not suitable for all types of waste heaps as the content of waste heap has to be predictable in order for project owner to be able to produce quality materials. High contents of sulphur and moisture can reduce the suitability of the waste heap for processing. A large scale deep exploration of the waste heap has to be performed before the project can start.

<u>Scenario 4. Coal extraction from waste heaps without JI incentives</u> *Investment barrier*: This scenario is financially unattractive and faces barriers. Detailed description of proposed scenario barriers is provided in the section B.2 of the PDD version 2.0.

<u>Scenario 5. Systematic monitoring of waste heaps condition and regular</u> <u>fire prevention and extinguishing measures</u>

Investment barrier: This scenario does not represent any revenues but anticipates additional costs for waste heaps owners. Monitoring of the waste heap status is not done systematically and in general actions are left to the discretion of the individual owners. Waste heaps are mostly owned by mines or regional coal mining associations. Coal mines in Ukraine suffer from limited investment resulting often in safety problems due to complicated mining conditions and financial constraints, with miners' salaries often being delayed by few months. Waste heaps in this situation are considered as additional burdens and mines often do not even perform minimum required maintenance. Exact data are not always available. From a commercial view point the fines that are usually levied by the authorities are considerably lower than costs of all the measures outlined by this scenario.





- (b) Taking into account relevant national and/or sectoral policies and circumstances, such as sectoral reform initiatives, local fuel availability, power sector expansion plans, and the economic situation in the project sector. In this context, the following key factors that affect a baseline are taken into account:
- (c) Taking into account relevant national and/or sectoral policies and circumstances, such as sectoral reform initiatives, local fuel availability, power sector expansion plans, and the economic situation in the project sector. In this context, the following key factors that affect a baseline are taken into account:
 - A comprehensive analysis and an in-depth description of the reform policies and legislation concerning the development and reforming of the Ukrainian coal industry. At this time effective united complex state program for prevention of waste heaps burning and reclamation with extraction of coal is absent. Fines paid by pollution costs much less than money spent on measures to prevent ignition or burning For this time 78 % of Luhansk Region waste heaps burned or burning.
 - Describing economic situation. Inner coal market in Ukraine is significantly controlled by Ukrainian government, which is owner of number of mines and significantly influencing on coal costs. Level of coal content in waste heap is difficultly predicted, and "Spetsmontazh FC" Ltd is a small company which cannot supply coal in big quantities in long range time.
 - As far as availability of capital there is a summary of key indicators of business practices in Ukraine as well as a comparison country risk premiums for Ukraine, and Russia are provided by the PP's vividly demonstrating that Ukraine has been always considered a high-risk country for investments and doing business, which extremely limits the opportunities of the project as for its access to financial resources at the international level.
 - It is stated by the project participants that modern technologies and best practices existing in the developed countries are unavailable due to their high cost and necessity of the knowledgeable personnel able to introduce and operate the equipment.
 - As far as the fuel prices and its availability, the PDD states that electricity and diesel fuel are widely used in Ukrainian industry. Prices for diesel fuel that is mostly imported from the Russian Federation are regulated by Ukrainian Government. Electric energy in Ukraine is produced at the thermal and nuclear power stations mainly by use of fossil fuel. Wholesale Electricity Market of Ukraine is managed by the state enterprise "Energorynok"; the level of prices for electric energy ranges greatly for different types of consumers.

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(c) In such a way that emission reduction units (ERUs) cannot be earned for decreases in activity levels outside the project activity or due to force majeure. According to the proposed approach emission reductions will be earned only when project activity will generate coal concentrate, so no emission reductions can be earned due to any changes outside the project activity.

(d) Taking into account uncertainties and using conservative assumptions such as the following:

- Lower range of parameters is used for calculation of baseline emissions and higher range of parameters is used for calculation of project activity emissions;
- Default values were used to the extent possible in order to reduce uncertainty and provide conservative data for emission calculations.
- The emissions of nitrous oxide have not taken into consideration for conservatism

For more details, please, refer to Section B.1. of the PDD.

Emissions in the baseline scenario are calculated as follows:

 $BE_y = BE_{WHB,y}$,

Where:

 $BE_{WHB,y}$ - baseline emissions due to burning of the waste heap in the year y (tCO2 equivalent),

Baseline emissions due to burning dumps in year y calculated by the formula:

 $BE_{WHB,y} = FC_{BE,Coal,y}/1000 \cdot \rho_{WHB} \cdot NCV_{Coal} \cdot OXID_{Coal} \cdot K_{Coal} \cdot 44/12 \quad (2)$ where:

 $FC_{BE,Coal,y}$ - amount of coal that has been mined in the baseline scenario and combusted for energy use, equivalent to the amount of coal extracted from the waste heap because of the project activity in the year y, t;

ho _{WHB} - probability of waste heap burning , d/l;

NCV Coal - net Calorific Value of coal, TJ/kt;

OXID _{Coal} - carbon Oxidation factor of coal, d/l;

*K*_{Coal}^c - carbon content of coal, tC/TJ;

1/1000 - conversion factor from tons in kilotonnes, d / l

44/12 - stoichiometric relationship between the molecular weight of carbon dioxide and carbon.

(1)

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The amount of coal produced in mines in the baseline scenario is calculated by the formula:

 $FC_{BE,Coal,y} = FR_{Coal,y} \cdot (1 - A_{rock,y} / 100 - W_{rock,y} / 100) \cdot (1 - A_{Coal} / 100 - W_{Coal} / 100)$ (3)

where:

 $FR_{Coal,y}$ - amount of sorted fraction (0-30mm), which is extracted from the dumps because of the project in a year y, that came to blending with further combustion in thermal power plants, t;

 $A_{rock,y}$ - the average ash content of sorted fractions (0-30mm), which is extracted from dump in year y,%

 $W_{rock,y}$ - the average humidity of sorted fractions (0-30mm), which is extracted from dump in year y, %;

 A_{Coal} - the average ash content of coal, mined in Donetsk region of Ukraine, %;

 W_{Coal} - the average humidity of coal, mined in Donetsk region of Ukraine, %;

100 - conversion factor from percent to fraction, d/l.

Identified problem areas for baseline for baseline setting, project participants' responses and conclusions of Bureau Veritas Certification are described in Annex A (refer to CAR06, CAR07, CL02)

4.4 Additionality (27-31)

The project "Waste Heap Dismantling in the Rebrykove Town of Luhansk Region of Ukraine with the Aim of Reducing Greenhouse Gases Emissions into the Atmosphere" project ITL UA1000392 is selected as the comparable JI project. Accredited independent entity has already positively determined that it would result in a reduction of anthropogenic emissions by sources or an enhancement of net anthropogenic removals by sinks that is additional to any that would otherwise occur. This determination has already been deemed final by the JISC. Appropriate documentation such as PDD and Determination Report regarding this project is available traceably and transparently on the UNFCCC JI Website.

http://ji.unfccc.int/JIITLProject/DB/XVX9ELI01AGMGKLB08FLJMB3K1X8MM/details

Additionality of the project was demonstrated adequately by demonstrating that the indicated project is implemented under comparable circumstances:





a) Both projects propose **same GHG mitigation measure:** The proposed GHG mitigation measure under both projects is coal extraction from the mine's waste heaps. 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. Criteria is satisfied

b) Both projects are implemented within the **same country and the same time**: The proposed project and identified comparable project are both located in Ukraine, project crediting periods are divided less than 1 year. Criteria is satisfied

c) **Scale.** The difference between the proposed project and the other project(s) is less than 50 per cent in terms of the projects output (i.e. power output, capacity increase, etc.) or service provided.

The projects envisage production of the same product (coal concentrate). Both projects use similar technological equipment (vibrating sieves GIL-52, heavy media separators STK and hydrocyclones GTsM). Capacity of both projects are limited by coal contains in the waste heap and waste heaps size and is less than 50% for both comparing projects with work in two-shift regime. Criteria is satisfied

d) There were no significant changes in **regulatory framework** between the starting dates of two projects. Criteria is satisfied.

The desk review of provided information and follow-up interviews enabled Bureau Veritas Certification Holding SAS to assess that all explanations, descriptions and analyses in the demonstration of additionality were made in accordance with criteria of "Guidance on criteria for baseline setting and monitoring" version 03 and this projects is indeed comparable project, implemented under comparable circumstances. The proposed JI activity provides the reductions in emissions by sources that are additional to any that would otherwise occur.

Identified problem areas for project additionality, project participants' responses and conclusions of Bureau Veritas Certification are described in Annex A (refer to CAR08).

4.5 **Project boundary (32-33)**

The details on the project boundary were provided in section B.3 of the PDD. The desk review of submitted documentation enabled Bureau Veritas Certification to assess that the project boundary defined in the PDD encompasses all anthropogenic emissions by sources of GHGs that are:



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- Under the control of the project participants;
- Reasonably attributable to the project; and
- Significant.

The baseline emission sources of GHGs that are included in the project boundaries are listed below. Emissions of carbon dioxide due to:

- Waste heap burning;

- Consumption of coal for energy production (excluded, does not take into the consideration in calculation).

The project emission sources of GHGs that were included in the project boundaries are listed below. Emissions of carbon dioxide due to:

Consumption of fossil fuel (diesel fuel) due to extracting coal from dump;
Consumption of coal for energy production (excluded, does not take into the consideration in calculation).

Leakages:

- Fugitive emissions of methane in the mining activities;
- Consumption of electricity from a grid at coal mine.
- Consumption of electricity due to enrichment coal from dump;
- Use of other types of energy sources due to mining (excluded).

All gases and sources included in the project boundary were explicitly stated, and the exclusions of any sources related to the baseline or the project are appropriately justified and provided in Table 12 of the PDD.

The delineation of the project boundary and the gases and sources included are appropriately described and justified in the PDD by using Figures 9-10 in section B.3 of the PDD.

Identified problem areas for project boundaries, project participants' responses and conclusions of Bureau Veritas Certification are described in Annex A (refer to CAR09, CAR10)

4.6 Crediting period (34)

The PDD states the starting date of the project as the date on which the waste heap dismantling begun, and the starting date is 15/09/2008, which is after the beginning of 2000.

The PDD states the expected operational lifetime of the project in years and months, which is 4 years and 4 months.

The PDD states the length of the crediting period in years and months, which is 4 years and 4 months, and its starting date as 15/09/2012, which is on the date the first emission reductions or enhancements of net removals are generated by the project.

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The PDD states that the crediting period for the issuance of ERUs starts only after the beginning of 2008 and does not extend beyond the operational lifetime of the project.

Identified problem areas for project crediting period, project participants' responses and conclusions of Bureau Veritas Certification are described in Annex A (refer to CAR11, CAR12)

4.7 Monitoring plan (35-39)

The PDD, in its monitoring plan section, explicitly indicates that JI specific approach was the selected.

The monitoring plan describes all relevant factors and key characteristics that will be monitored, and the period in which they will be monitored, in particular also all decisive factors for the control and reporting of project performance, such as value of extracted coal, values of consumed electricity, diesel fuel.

The monitoring plan specifies the indicators, constants and variables that are reliable (i.e. provide consistent and accurate values), valid (i.e. are clearly connected with the effect to be measured), and that provide a transparent picture of the emission reductions or enhancements of net removals to be monitored such as Net Calorific Value of Coal, Net calorific value of Diesel fuel, Carbon Oxidation Factor of Coal, Carbon Oxidation Factor of Diesel Fuel, Carbon content of coal, Carbon content of diesel fuel, Emission factor for fugitive methane emissions from coal mining, Specific carbon dioxide emissions due to production of electricity at TPP and by its consumptions, The average ash content of coal produced in Donetsk region, the average moisture of coal produced in Donetsk Region, probability of waste heap burning, average electricity consumption per tonne of coal, produced in Ukraine.

The monitoring plan draws on the list of standard variables indicated in appendix B of "Guidance on criteria for baseline setting and monitoring" developed by the JISC.

The monitoring plan explicitly and clearly distinguishes:

(i) Data and parameters that are not monitored throughout the crediting period, but are determined only once (and thus remain fixed throughout the crediting period), and that are available already at the stage of determination, such as Global Warming potential of the Methane, Methane Density, Net Calorific Value of Coal, Net calorific value of Diesel fuel, Carbon Oxidation Factor of Coal, Carbon Oxidation Factor of Diesel Fuel, Carbon content of coal, Carbon content of diesel fuel, Emission factor for fugitive methane emissions from coal mining, Specific carbon dioxide emissions due to production of electricity at





TPP and by its consumptions, The average ash content of coal produced in Luhansk region, the average moisture of coal produced in Luhansk Region, probability of waste heap burning, average electricity consumption per tonne of coal, produced in Ukraine

(ii) Data and parameters that are not monitored throughout the crediting period, but are determined only once (and thus remain fixed throughout the crediting period), but that are not already available at the stage of determination, such as absent.

(iii) Data and parameters that are monitored throughout the crediting period, such as Additional amount of electricity consumed in project, amount of diesel fuel consumed in project year, value of produced coal.

The monitoring plan describes the methods employed for data monitoring (including its frequency) and recording, such as direct monitoring of electricity consumption by meters, sampling of produced coal, etc. Description of employed methods is provided in the section D.1 of the PDD.

The monitoring plan elaborates all algorithms and formulae used for the estimation/calculation of baseline emissions/removals and project emissions/removals or direct monitoring of emission reductions from the project, leakage, as appropriate, such as described below

The annual emission reductions are calculated as follows:

$$ER_y = BE_y - PE_y - LE_y, \tag{3}$$

where:

 ER_y - emissions reductions of the JI project in year y (tCO2 equivalent); BE_y - baseline emission in year y (tCO2 equivalent); PE_y - project emission in year y (tCO2 equivalent); LE_y - leakages in year y, (tCO2 equivalent).

Emissions in the baseline scenario are calculated as follows:

$$BE_y = BE_{WHB,y} ,$$

(4)

Where:

 $BE_{WHB,y}$ - baseline emissions due to burning of the waste heap in the year y (tCO2 equivalent),

Baseline emissions due to burning dumps in year y calculated by the formula:

 $BE_{WHB,y} = FC_{BE,Coal,y}/1000 \cdot \rho_{WHB} \cdot NCV_{Coal} \cdot OXID_{Coal} \cdot K_{Coal} c \cdot 44/12 (5)$

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where:

 $FC_{BE,Coal,y}$ - amount of coal that has been mined in the baseline scenario and combusted for energy use, equivalent to the amount of coal extracted from the wast heap because of the project activity in the year y, t;

 ρ_{WHB} - probability of waste heap burning , d/l;

NCV Coal - net Calorific Value of coal, TJ/kt;

OXID Coal - carbon Oxidation factor of coal, d/l;

 K_{Coal} ^c - carbon content of coal, tC/TJ;

1/1000 - conversion factor from tons in kilotonnes, d / l

44/12 - stoichiometric relationship between the molecular weight of carbon dioxide and carbon.

Emissions from the project activity are calculated as follows:

$$PE_y = PE_{Diesel,y}$$

(6)

where:

 PE_y - project emissions due to project activity in the year y (tCO2 equivalent),

 $PE_{Diesel,y}$ - project emissions due to consumption of diesel fuel by the project activity in the year y (tCO2 equivalent).

Project emissions due to consumption of diesel fuel by the project activity in the year y are calculated as follows:

 $PE_{Diesel,y} = FC_{BE,Diesel,y}/1000 \cdot NCV_{Diesel} \cdot OXID_{Diesel} \cdot K_{Diesel}^{c} \cdot 44/12$ (7)

where:

 $FC_{BE,Diesel,y}$ - amount of diesel fuel, consumed in project in year y, t; NCV_{Diesel} - Net Calorific Value of diesel fuel, TJ/kt; $OXID_{Diesel}$ - carbon Oxidation factor of diesel fuel, d/l;

 K_{Diesel}^{c} - carbon content of diesel, tC/TJ;

44/12 - stoichiometric relationship between the molecular weight of carbon dioxide and carbon.

1/1000 - conversion factor from tons in kilotonnes, d / l

Leakages in year y are calculated as follows:

$$LE_y = LE_{B,y} + LE_{P,y}$$

where::

 LE_y - leakages in year y, (t CO2e); $LE_{B,y}$ - leakages in the baseline scenario in the year y, (t CO2e); $LE_{P,y}$ - leakages in project scenario in a year y,(t CO2e);

Leakages in the baseline scenario in the year y are calculated as follow



(8)

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$$LE_{B,y} = LE_{CH4,y} + LE_{EL,y}$$

Leakages due to fugitive emissions of methane in the mining activities in the year y are calculated as follows:

 $LE_{CH4,y} = -FC_{BE,Coal,y} \cdot EF_{CH4} \cdot \rho_{CH4} \cdot GWP_{CH4}, \qquad (10)$

 $FC_{BE,Coal,y}$ - amount of coal that has been mined in the baseline scenario and combusted for energy use, equivalent to the amount of coal extracted from the sludge depository because of the project activity in the year *y*, t; EF_{CH4} - emission factor for fugitive methane emissions from coal mining, m3/t;

 ρ_{CH4} - methane density at standard conditions t/m3; GWP_{CH4} - Global Warming Potential of Methane, tCO2/ tCH4.

Leakages due to consumption of electricity from a grid at coal mine in a year y are calculated as follows:

$$LE_{B,EL,y} = -FC_{BE,Coal,y} \cdot N_{Coal,y}^{E} \cdot EF_{CO2,EL,y}$$
(11)

Where

 $FC_{BE,Coal,y}$ - amount of coal that has been mined in the baseline scenario and combusted for energy use, equivalent to the amount of coal extracted from the waste heaps because of the project activity in the year y, t;

 $N_{Coal,y}^{E}$ - Average electricity consumption per tonne of coal, produced in Ukraine in the year y, MWh/t;

 $EF_{CO2,EL,y}$ - Specific carbon dioxide emissions due to production of electricity at TPP and by its consumption, tCO2/MWh

Leakages in project scenario in a year y are calculated as follow:

 $LE_{P,y} = LE_{P,EL,y} \tag{12}$

Where

 $LE_{P,EL,y}$ - leakages due to consumption of electricity from a grid at benefication plant in a year y,(t CO2e)

$$LE_{P,EL,y} = -FC_{BE,Coal,y} \cdot N_{P,Coal,y}^{E} \cdot EF_{CO2,EL,y}$$
(13)

Де

 $FC_{BE,Coal,y}$ - amount of coal that has been mined in the baseline scenario and combusted for energy use, equivalent to the amount of coal extracted from the waste heaps because of the project activity in the year *y*, t; $N_{P,Coal,y}^{E}$ - average electricity consumption per tonne of coal for the processing technology of rock on the benefication plant, MW/t;



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 $EF_{CO2,EL,y}$ - specific carbon dioxide emissions due to production of electricity at TPP and by its consumption, tCO2/MWh;

The monitoring plan presents the quality assurance and control procedures for the monitoring process described in the section D.2 of the PDD. This includes, as appropriate, information on calibration and on how records on data and/or method validity and accuracy are kept and made available on request.

The monitoring plan clearly identifies the responsibilities and the authority regarding the monitoring activities. Clear and transparent scheme of monitoring data flow is provided in the section D.3 of the PDD.

On the whole, the monitoring plan reflects good monitoring practices appropriate to the project type.

The monitoring plan provides, in tabular form, a complete compilation of the data that need to be collected for its application, including data that are measured or sampled and data that are collected from other sources (e.g. official statistics, expert judgment, proprietary data, IPCC, commercial and scientific literature etc.) but not including data that are calculated with equations.

The monitoring plan indicates that the data monitored and required for verification are to be kept for two years after the last transfer of ERUs for the project.

Identified problem areas for project monitoring plan, project participants' responses and conclusions of Bureau Veritas Certification are described in Annex A to the Determination Report (refer to CAR13)

4.8 Leakage (40-41)

This project will result in a net change in fugitive methane emissions due to the mining activities. As coal in the baseline scenario is only coming from mines it causes fugitive emissions of methane. These are calculated as standard country specific emission factor applied to the amount of coal that is extracted from the waste heaps in the project scenario (which is the same as the amount of coal that would have been mined in the baseline scenario. Source of the leakage are the fugitive methane emissions due to coal mining. These emissions are specific to the coal that is being mined. Coal produced by the project activity is not mined but extracted from the waste heap through the advanced beneficiation process. Therefore, coal produced by the project activity substitutes the coal would have been otherwise mined in the baseline. Coal that is mined in the baseline has fugitive methane emissions associated with it and the





coal produced by the project activity does not have such emissions associated with it.

As reliable and accurate national data on fugitive CH4 emissions associated with the production of coal are available, project participants used this data to calculate the amount of fugitive CH4 emission as described below.

This leakage is measurable: through the same procedure as used in 2006 IPCC Guidelines (See Volume 2, Chapter 4, Page 4-11) and also used in CDM approved methodology ACM0009, Version 4.0.0. Activity data (in our case amount of coal extracted from the waste heap which is monitored directly) is multiplied by the emission factor (which is sourced from the relevant national study – National Inventory Report of Ukraine under the Kyoto Protocol) and any conversion coefficients.

Electricity consumption and related greenhouse gas emissions due to dismantling of waste heap to be taken into account in calculating the project emissions. Carbon dioxide emissions due to electricity consumption in the coal mine way in an amount, equivalent to the design of coal - a leakage that can be taken into account at base of the State Statistics Committee data, concerning unit costs of electricity at coal mines in Ukraine in the relevant year.

This leakage is directly attributable to the JI project activity according to the following assumption: the coal produced by the project activity from the waste heap will substitute the coal produced by underground mines of the region in the baseline scenario. This assumption is explained by the following logic: Energy coal market is demand driven as it is not feasible to produce coal without demand for it. Coal is a commodity that can be freely transported to the source of demand and coal of identical quality can substitute some other coal easily. The project activity cannot influence demand for coal on the market and supplies coal extracted from the waste heaps. In the baseline scenario demand for coal will stay the same and will be met by the traditional source - underground mines of the region. Therefore, the coal supplied by the project in the project scenario will have to substitute the coal mined in the baseline scenario. According to this approach equivalent product supplied by the project activity (with lower associated specific green-house gas emissions) will substitute the baseline product (with higher associated specific green-house gas emissions). This methodological approach is very common and is applied in all renewable energy projects (substitution of grid electricity with renewable-source electricity), projects in cement sector (e.g. JI0144 Slag usage and switch from wet to semi-dry process at JSC "Volyn-Cement", Ukraine), projects in metallurgy sector (e.g. UA1000181 Implementation of Arc Furnace Steelmaking Plant "Electrostal" at Kurakhovo, Donetsk Region) and others.

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4.9 Estimation of emission reductions or enhancements of net removals (42-47)

The PDD indicates assessment of emissions or net removals in the baseline scenario and in the project scenario as the approach chosen to estimate the emission reductions or enhancement of net removals generated by the project.

The PDD provides the ex ante estimates of:

(a) Emissions or net removals for the project scenario (within the project boundary), which are 161 861 tonnes of CO2eq for period 15/09/2008-31/12/2012;

(b) Leakage, as applicable, which are -2 456 669 tonnes of CO2eq for period 15/09/2008-31/12/2012;

(c) Emissions or net removals for the baseline scenario (within the project boundary), which are 8 434 178 tonnes of CO2eq for period 15/09/2008-31/12/2012;

(d) Emission reductions or enhancements of net removals adjusted by leakage (based on (a)-(c) above), which are 10 728 986 tonnes of CO2eq for period 15/09/2008-31/12/2012.

The PDD provides the ex ante estimates of:

The estimates referred to above are given:

- (a) On a yearly basis;
- (b) From 15/09/2008 to 31/12/2012, covering the whole crediting period;
- (c) On a source-by-source/sink-by-sink basis;
- (d) For each GHG gas, which is CO2, CH4

(e) In tonnes of CO2 equivalent, using global warming potentials defined by decision 2/CP.3 or as subsequently revised in accordance with Article 5 of the Kyoto Protocol;

The formula used for calculating the estimates referred above, which are described in the section 4.7 of this Determination Report, are consistent throughout the PDD.

For calculating the estimates referred to above, key factors, e.g. local prices for electricity, coal and diesel fuel, available production resources, influencing the baseline emissions or removals and the activity level of the project and the emissions or net removals as well as risks associated with the project were taken into account, as appropriate.

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Data sources used for calculating the estimates referred to above, such as work and laboratory logbooks, work and laboratory monthly and yearly reports, production sailing invoices are clearly identified, reliable and transparent.

Emission factors, such as emission factor for electricity consumption, Carbon Oxidation Factor of Coal, Carbon Oxidation Factor of Diesel Fuel, etc, were selected by carefully balancing accuracy and reasonableness, and appropriately justified of the choice.

The estimation referred to above is based on conservative assumptions and the most plausible scenarios in a transparent manner.

The estimates referred to above are consistent throughout the PDD.

The annual average of estimated emission reductions or enhancements of net removals over the crediting period is calculated by dividing the total estimated emission reductions or enhancements of net removals over the crediting period by the total months of the crediting period, and multiplying by twelve.

Identified problem areas for project estiomation of emission reduction, project participants' responses and conclusions of Bureau Veritas Certification are described in Annex A to the Determination Report (refer to CAR14)

4.10 Environmental impacts (48)

The PDD lists and attaches documentation on the analysis of the environmental impacts of the project, including transboundary impacts, in accordance with procedures as determined by the host Party, such as permit on pollutant by stationary sources, analysis of the environmental impacts, a part of separation fabric work project which is mentioned in the PDD.

The PDD provides conclusion and all references to supporting documentation of an environmental impact assessment undertaken in accordance with the procedures as required by the host Party, if the analysis referred to above indicates that the environmental impacts are considered significant by the project participants or the host Party.

The problem areas for environmental impacts of the project were not identified

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4.11 Stakeholder consultation (49)

The host Party for the project is Ukraine. The project meets the applicable standards and requirements, set forth in Ukraine. The Host Party does not put forward the requirement to consult with stakeholders to JI projects. The project was presented to the local authorities, and was approved (approval on building, etc).

Any comments from local authorities or stakeholders were not obtained.

4.12 Determination regarding small scale projects (50-57) "Not applicable"

4.13 Determination regarding land use, land-use change and forestry (LULUCF) projects (58-64)

"Not applicable"

4.14 Determination regarding programmes of activities (65-73) "Not applicable"

5 SUMMARY AND REPORT OF HOW DUE ACCOUNT WAS TAKEN OF COMMENTS RECEIVED PURSUANT TO PARAGRAPH 32 OF THE JI GUIDELINES

No comments, pursuant to paragraph 32 of the JI Guidelines, were received

6 DETERMINATION OPINION

Bureau Veritas Certification has performed a determination of the "Waste heap #1, #2, #3 and #5 dismantling of Frunze mine with the aim of decreasing greenhouse gases emission into the atmosphere" Project in Yasenivskyi urban village, Rovenky borough council, Luhansk region, Ukraine. The determination 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 determination consisted of the following three phases: i) a desk review of the project design and the baseline and monitoring plan; ii) follow-up interviews with project stakeholders; iii) the resolution of outstanding issues and the issuance of the final determination report and opinion.

Project participant/s used the latest tool for demonstration of the additionality. In line with this tool, the PDD provides barrier analysis and common practice analysis, to determine that the project activity itself is not the baseline scenario.







Emission reductions attributable to the project are hence additional to any that would occur in the absence of the project activity. Given that the project is implemented and maintained as designed, the project is likely to achieve the estimated amount of emission reductions.

The determination revealed two pending issues related to the current determination stage of the project: the issue of the written approval of the project and the authorization of the project participant by the host Party. If the written approval and the authorization by the host Party are awarded, it is our opinion that the project as described in the Project Design Document, Version 2.0 meets all the relevant UNFCCC requirements for the determination stage and the relevant host Party criteria.

The review of the project design documentation (version 2.0) and the subsequent follow-up interviews have provided Bureau Veritas Certification with sufficient evidence to determine the fulfillment of stated criteria. In our opinion, the project correctly applies and meets the relevant UNFCCC requirements for the JI and the relevant host country criteria.

The determination is based on the information made available to us and the engagement conditions detailed in this report.

DETERMINATION REPORT: WASTE HEAP #1, #2, #3 AND #5 DISMANTLING OF FRUNZE MINE WITH THE AIM OF DECREASING GREENHOUSE GASES EMISSION INTO THE ATMOSPHERE



7 REFERENCES

Category 1 Documents:

Documents provided by SIA "Vidzeme Eko" that relate directly to the GHG components of the project.

- /1/ Project Design Document "Waste heap #1, #2, #3 and #5 dismantling of Frunze mine with the aim of decreasing greenhouse gases emission into the atmosphere" version 1.0 dated 07/10/2012
- /2/ Project Design Document "Waste heap #1, #2, #3 and #5 dismantling of Frunze mine with the aim of decreasing greenhouse gases emission into the atmosphere" version 2.0 dated 17/10/2012
- /3/ ERUs calculation Excel-file "CalculationFrunzeK.xls"
- /4/ Letter of Endorsement #2929/23/7 issued by State Environment Investment Agency of Ukraine 05/10/2012.

Category 2 Documents:

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

- /1/ Subcontract #008 from 18/08/08 between "TESEY LTD" Ltd. and "ALTA-KOM" LTD.
- /2/ Delivery Agreement #008 from 18/08/08 between "TESEY LTD" Ltd. and "ALFA-DIAS" Ltd
- /3/ Contract for work #888 from 18/08/08 between PE "SPETSMONTAZH FC" and "TESEY LTD" Ltd.
- /4/ Certificate of performed work of weighing from 01/11/09 of 58307 t of carbonaceous rock
- /5/ Sale invoices # 58 for 8977080 t of coal
- /6/ Certificate of performed work of weighing from 01/04/10 of 58980 t of carbonaceous rock
- /7/ Sale invoices # 40 for 21655 t of coal
- /8/ Certificate of performed work of weighing from 01/10/10 of 60436 t of carbonaceous rock
- /9/ Sale invoices # 109 for 22190 t of coal
- /10/ Certificate of performed work of weighing from 01/02/11of 57875 t of carbonaceous rock
- /11/ Sale invoices # 18 for 21289 t of coal
- /12/ Certificate of performed work of weighing from 01/11/11 of 58598 t of carbonaceous rock
- /13/ Sale invoices # 93 for 21555 t of coal
- /14/ Certificate of performed work of weighing from 01/05/12 of 57494 t of carbonaceous rock
- /15/ Sale invoices # 66 for 21555 t of coal
- /16/ Photo: exterior of waste heap #1
- /17/ Photos: Exterior of enrichment plant in Yasenivskyi urban village

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Persons interviewed:

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

- /1/ Gints Klavinsh SIA "Vidzeme Eko" JI Project Manager
- /2/ Tymofeev Sergiy Petrovych SIA "Vidzeme Eko" JI Consultant
- /3/ Stah Yuri Mykhailovych SIA "Vidzeme Eko" JI Consultant
- /4/ Ivan Petrovich Kuzmenko "ALTA-KOM" LTD. Production Manager
- /5/ Igor Volodymyrovych Klimenko "TESEY LTD" Ltd manager of TCD

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APPENDIX A: DETERMINATION PROTOCOL

DETERMINATION PROTOCOL

Check list for determination, according JOINT IMPLEMENTATION DETERMINATION AND VERIFICATION MANUAL (Version 01)

DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
General de	escription of the project			
Title of the	project			
-	Is the title of the project presented?	The title of project is "Waste heap #1, #2, #3 and #5 dismantling of frunze mine with the aim of decreasing greenhouse gases emission into the atmosphere"	ОК	OK
-	Is the sectoral scope to which the project pertains presented?	The sectoral scope of proposed project is 8. Mining/mineral production	OK	ОК
-	Is the current version number of the document presented?	The current version number is 1.0	OK	ОК
-	Is the date when the document was completed presented?	The date when the PDD version 1.0 completed is 07/10/2012	OK	ОК
Description	n of the project			
-	Is the purpose of the project included with a concise, summarizing explanation (max. 1-2 pages) of the: a) Situation existing prior to the starting date of the project; b) Baseline scenario; and c) Project scenario (expected outcome, including a technical description)?	<u>Situation existing prior the starting date of the project:</u> Very often is not economically feasible to extract 100 % of coal from the mined coal containing rock mass. So, waste heaps in Luhansk Region contains large amount of coal, which is self-ignited. Waste heap burning releasing large amount of GHG. <u>Baseline scenario</u> assumes that usual practice will be provided.	ОК	ОК



DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
		<u>Project scenario</u> foresees dismantling of waste heap with extraction of coal. Full dismantling of waste heap eliminates possibility of waste heap burning and extracted coal will replace mined coal used at TPPs as fuel		
-	Is the history of the project (incl. its JI component) briefly summarized?	The JI component of project history is briefly summarized <u>CL01</u> Please clarify in the section of PDD dates of waste heaps strewing begin and end	CL01	ОК
Project par	rticipants			
-	Are project participants and Party(ies) involved in the project listed?	The PE "Spetsmontazh FC" from Ukraine and SIA "Vidzeme Eko" from Latvia are indicated as Project Participants and Perties Involved	OK	ОК
-	Is the data of the project participants presented in tabular format?	The data of the project participants is presented in tabular format	ОК	ОК
-	Is contact information provided in Annex 1 of the PDD?	Annex 1 contains contact information on project participants	ОК	OK
-	Is it indicated, if it is the case, if the Party involved is a host Party?	Ukraine, the Host Party, is indicated as Party Involved	ОК	OK
Technical	description of the project			
Location o	f the project			
-	Host Party(ies)	Ukraine	OK	OK
-	Region/State/Province etc.	Luhansk Region, Rovenky borough consil	OK	OK
-	City/Town/Community etc.	Yasenivskyi urban village	OK	OK
-	Detail of the physical location, including information allowing the unique	Detailed data on dismantled waste heaps are provided in the section A.4.1.4	CAR01	OK



DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	identification of the project. (This section should not exceed one page)	Please move photos of dismantled waste heap that section A.4.1.4 doesn't exceed one page		
Technolog		ns or actions to be implemented by the project		
-	Are the technology(ies) to be employed, or measures, operations or actions to be implemented by the project, including all relevant technical data and the implementation schedule described?	described in the section A.4.2 <u>CAR02</u> Please clarify mentioning of enrichment plant "Tandem- 2006"	CAR02	ОК
including v	why the emission reductions would not oc plicies and circumstances	s of greenhouse gases by sources are to be reduced t cur in the absence of the proposed project, taking int	to account na	tional and/or
-	Is it stated how anthropogenic GHG emission reductions are to be achieved? (This section should not exceed one page)	 The GHG emission reductions will be achieved in the next ways: elimination of GHG sources related to the waste heaps burning by coal extraction of waste heaps reduction of CH4 fugitive emissions from mines by replaced of obtained from mines coal reduction of electricity consumption by coal extraction from the waste heap comparing with coal extraction from mines 	ОК	ОК
-	Is it provided the estimation of emission reductions over the crediting period?	The estimation of emission reduction over the crediting period (from 15/09/2008-31/12/2012) is 10 728 986 tonnes of CO2 equivalent	OK	ОК
-	Is it provided the estimated annual reduction for the chosen credit period in tCO2e?	The estimated annual reduction for chosen crediting period is 2 475 920 tonnes of CO2 equivalent	OK	ОК



DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
-	Are the data from questions above presented in tabular format?	The data from questions above is presented in tabular format	ОК	OK
Estimated	amount of emission reductions over the cr	editing period		
-	Is the length of the crediting period Indicated?	The length of crediting period is 4 years 4 months (52 months) from 15/09/2008 till 31/12/2012	OK	ОК
-	Are estimates of total as well as annual and average annual emission reductions in tonnes of CO2 equivalent provided?	The estimates of total as well as annual and average annual emission reductions are provided in tonnes of CO2	OK	ОК
Project ap	provals by Parties			
19	Have the DFPs of all Parties listed as "Parties involved" in the PDD provided written project approvals?	<u>CAR03</u> Please provide Letter of Endorsement <u>CAR04</u> Please provide written approvals from the both Parties Involved	CAR03 CAR04	OK Pending
19	Does the PDD identify at least the host Party as a "Party involved"?	The PDD identifies Host Party Ukraine as a Party Involved	ОК	ОК
19	Has the DFP of the host Party issued a written project approval?	See CAR04	Pending	Pending
20	Are all the written project approvals by Parties involved unconditional?	See CAR04	Pending	Pending
Authorizat	ion of project participants by Parties involv	red		
21	Is each of the legal entities listed as project participants in the PDD authorized by a Party involved, which is also listed in the PDD, through: - A written project approval by a Party involved, explicitly indicating the name of	<u>CAR05</u> Please indicate authorisation by Parties involved way for legal entities indicated as project participants	CAR05	Pending

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DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	the legal entity? or – Any other form of project participant authorization in writing, explicitly indicating the name of the legal entity?			
Baseline s	etting			
22	 Does the PDD explicitly indicate which of the following approaches is used for identifying the baseline? JI specific approach Approved CDM methodology approach 	The PDD explicitly indicates that JI specific approach was used for baseline identification	ОК	ОК
JI specific	approach only			
23	Does the PDD provide a detailed theoretical description in a complete and transparent manner?	The PDD contains detailed theoretical description of proposed baseline	OK	ОК
23	Does the PDD provide justification that the baseline is established: (a) By listing and describing plausible future scenarios on the basis of conservative assumptions and selecting the most plausible one? (b) Taking into account relevant national and/or sectoral policies and circumstance? – Are key factors that affect a baseline taken into account? (c) In a transparent manner with regard to the choice of approaches, assumptions, methodologies, parameters, date sources and key factors?	 The PDD provides justification of established baseline: (a) By listing and describing five plausible future scenarios on the basis of conservative assumptions and selecting the most plausible one (b) Taking into account relevant national and sectoral policies and circumstances (c) In a transparent manner with regard to the choice of approaches, assumption, methodologies, parameters, date sources and key factors (d) Taking into account the uncertainties and using conservative assumptions (e) The ERUs cannot be earned for decreasing the 	CAR06 CL02	OK OK

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DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	 (d) Taking into account of uncertainties and using conservative assumptions? (e) In such a way that ERUs cannot be earned for decreases in activity levels outside the project or due to force majeure? (f) By drawing on the list of standard variables contained in appendix B to "Guidance on criteria for baseline setting and monitoring", as appropriate? 	activity level outside the project or due to the force majeure (f) In line within the list of standard variables contained in appendix B to "Guidance on criteria for baseline setting and monitoring" <u>CAR06</u> References 23 and 29 don't contain mentioned document. Please move on reference or provide reference on PDDs Annex <u>CL02</u> Please add information on penalty charges in the waste heap burning and state rules for prevention of the waste heap burning		
24	If selected elements or combinations of approved CDM methodologies or methodological tools for baseline setting are used, are the selected elements or combinations together with the elements supplementary developed by the project participants in line with 23 above?	The selected elements of approved methodology ACM 0009 was used for leakages estimation <u>CAR07</u> Please use the latest version of mentioned CDM methodology and correctly indicate reference number of then	CAR07	ОК
25	If a multi-project emission factor is used, does the PDD provide appropriate justification?	The PDD uses for emission estimations values of multi- project emission factors from NIR	OK	OK
Approved Additional	CDM methodology approach only_Paragra itv	phs 26(a) – 26(d)_Not applicable		
	approach only			
28	Does the PDD indicate which of the following approaches for demonstrating	The PDD states that approach (b) was used for demonstration of additionality	ОК	ОК



DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	additionality is used? (a) Provision of traceable and transparent information showing the baseline was identified on the basis of conservative assumptions, that the project scenario is not part of the identified baseline scenario and that the project will lead to emission reductions or enhancements of removals; (b) Provision of traceable and transparent information that an AIE has already positively determined that a comparable project (to be) implemented under comparable circumstances has additionality; (c) Application of the most recent version of the "Tool for the demonstration and assessment of additionality. (allowing for a two-month grace period) or any other method for proving additionality approved by the CDM Executive Board".			
29 (a)	Does the PDD provide a justification of the applicability of the approach with a clear and transparent description?	The PDD provides a justification of the applicability of the proposed approach	OK	OK
29 (b)	Are additionality proofs provided?	The additionality proofs are provided	OK	OK
29 (c)	Is the additionality demonstrated appropriately as a result?	The additionality is demonstrated appropriately: (a) Both projects have the same GHG measures , the measures implemented and virtually project boundaries are identical. ERUs output for both projects is differ by	CAR08	ОК

DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
		 %. Criteria is satisfied (b) Both projects are implemented in the same country and in the same time. Both projects are implemented in Ukraine; starting dates are divided less than 1 year. Criteria is satisfied (c) Both projects have similar technology. Criteria is satisfied (d) Both projects have similar scale. Data on project output in tonnes of coal are provided (e) there are not significant changes in state rules during the period between the projects start days <u>CAR08</u> Please provide data comparing both project output in tonnes of coal are provided 		
30	If the approach 28 (c) is chosen, are all explanations, descriptions and analyses made in accordance with the selected tool or method?	tonnes of coal and annual values of ERU the approach 28(b) was chosen	ОК	ОК
	CDM methodology approach only_ Paragra			
	undary (applicable except for JI LULUCF p approach only			
32 (a)	Does the project boundary defined in the PDD encompass all anthropogenic emissions by sources of GHGs that are: (i) Under the control of the project participants? (ii) Reasonably attributable to the project?	 The project boundaries defined in the PDD encompass all anthropogenic emissions by GHG sources that are (i) Under control of the project participants, such as emissions of electricity and diesel fuel consumption during waste heap dismantling (ii) Reasonably attributable to the project, such 	CAR09 CAR10	OK OK



DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	(iii) Significant?	as emissions from waste heap burning or methane emissions as result of coal industry (iii) Significant <u>CAR09</u> Please note relations between the project owner and owners of enrichment plant <u>CAR10</u> Please provide evidences that coal obtained in project frames will be used in Ukraine		
32 (b)	Is the project boundary defined on the basis of a case-by-case assessment with regard to the criteria referred to in 32 (a) above?	The project boundary is defined on the basis of a case- by-case assessment with regard to the criteria in 32(a) above	OK	ОК
32 (c)	Are the delineation of the project boundary and the gases and sources included appropriately described and justified in the PDD by using a figure or flow chart as appropriate?	The delineation of project boundaries and gases and sources excluded is clearly described in the PDD, using flow charts.	ОК	ОК
32 (d)	Are all gases and sources included explicitly stated, and the exclusions of any sources related to the baseline or the project are appropriately justified?	All gases and sources inclusions are explicitly stated in the project and baseline scenarios	ОК	ОК
Approved CDM methodology approach only_Paragraph 33_ Not applicable Crediting period				
34 (a)	Does the PDD state the starting date of the project as the date on which the implementation or construction or real action of the project will begin or began?	The starting date of the project is 15/09/2008 – the day when the installation of project equipment was begun <u>CAR11</u> Please provide evidences on project starting date	CAR11	ОК


DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
34 (a)	Is the starting date after the beginning of 2000?	The 15/09/2008 is after the beginning of 2000	ОК	ОК
34 (b)	Does the PDD state the expected operational lifetime of the project in years and months?	The PDD states expected operational lifetime in 4 years and 4 months (52 months)	OK	OK
34 (c)	Does the PDD state the length of the crediting period in years and months?	The length of crediting period is identical with project operation lifetime <u>CAR12</u> Please indicate length of crediting period and length of project operation lifetime in years and months	CAR12	ОК
34 (c)	Is the starting date of the crediting period on or after the date of the first emission reductions or enhancements of net removals generated by the project?	The starting date of the crediting period is the date when emission reduction generation begun	ОК	ОК
34 (d)	Does the PDD state that the crediting period for issuance of ERUs starts only after the beginning of 2008 and does not extend beyond the operational lifetime of the project?	The PDD states that the crediting period for ERUs issuance starts after 2008 beginning and doesn't extend the project operational lifetime	ОК	ОК
34 (d)	If the crediting period extends beyond 2012, does the PDD state that the extension is subject to the host Party approval? Are the estimates of emission reductions or enhancements of net removals presented separately for those until 2012 and those after 2012?	The crediting period doesn't extend beyond 2012	ОК	ОК



DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
35	Does the PDD explicitly indicate which of the following approaches is used? – JI specific approach – Approved CDM methodology approach	The PDD states that the JI specific approach was used for monitoring plan establishing	ОК	OK
JI specific 36 (a)	 approach only Does the monitoring plan describe: All relevant factors and key characteristics that will be monitored? The period in which they will be monitored? All decisive factors for the control and reporting of project performance? 	 fuel consumed in project activity; value of extracted coal concentrate The period in which they will be monitored are indicated, frequency of measuring procedures is identified All decisive factors for the control and reporting of 	OK	ОК
36 (b)	Does the monitoring plan specify the indicators, constants and variables used that are reliable, valid and provide transparent picture of the emission reductions or enhancements of net removals to be monitored?	project performance are described The monitoring plan specify the indicators, constants and variables used, that are reliable, valid and provide transparent picture of the emission reductions to be monitored	ОК	ОК
36 (b)	If default values are used: - Are accuracy and reasonableness carefully balanced in their selection? - Do the default values originate from recognized sources? - Are the default values supported by statistical analyses providing reasonable confidence levels?	 The default values, such as: global warming potential of methane methane density in standard conditions carbon emission factors for electricity consumption carbon oxidation factors for coal and diesel fuel carbon content of diesel fuel and coal, etc these default values is in line within National GHG 	ОК	ОК



DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	– Are the default values presented in a transparent manner?	inventory Report developed and approved by Ukraine DFP(SEIA)		
36 (b) (i)	For those values that are to be provided by the project participants, does the monitoring plan clearly indicate how the values are to be selected and justified?	For monitored data provided by the project participants monitoring plan identify selection and justification	ОК	ОК
36 (b) (ii)	For other values, – Does the monitoring plan clearly indicate the precise references from which these values are taken? – Is the conservativeness of the values provided justified?	References on values obtained from sources another from indicated above is provided. Conservativeness of this value is justified	ОК	ОК
36 (b) (iii)	For all data sources, does the monitoring plan specify the procedures to be followed if expected data are unavailable?	The procedures following if expected data is unavailable are described in the section D.1 of the PDD	OK	OK
36 (b) (iv)	Are International System Unit (SI units) used?	Some units from International System Unit are used	OK	ОК
36 (b) (v)	Does the monitoring plan note any parameters, coefficients, variables, etc. that are used to calculate baseline emissions or net removals but are obtained through monitoring?	 The monitoring plan clearly indicate next parameters that obtained through monitoring but used for baseline calculations: amount of coal that has been mined in the baseline scenario and combusted for energy use, equivalent to the amount of coal extracted from the waste heap because of the project activity net Calorific Value of coal carbon Oxidation factor of coal carbon content of coal 	ОК	ОК



DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
		 the average ash content of sorted fractions the average humidity of sorted fractions 		
36 (b) (v)	Is the use of parameters, coefficients, variables, etc. consistent between the baseline and monitoring plan?	The use of parameters, coefficients, variables is consistent between the baseline and the monitoring plan	OK	OK
36 (c)	Does the monitoring plan draw on the list of standard variables contained in appendix B of "Guidance on criteria for baseline setting and monitoring"?	The monitoring plan was drawn in accordance with the list of standard variables contained in appendix B of "Guidance on criteria for baseline setting and monitoring"	ОК	ОК
36 (d)	Does the monitoring plan explicitly and clearly distinguish: (i) Data and parameters that are not monitored throughout the crediting period, but are determined only once (and thus remain fixed throughout the crediting period), and that are available already at the stage of determination? (ii) Data and parameters that are not monitored throughout the crediting period, but are determined only once (and thus remain fixed throughout the crediting period), but that are not already available at the stage of determination? (iii) Data and parameters that are monitored throughout the crediting period), but that are not already available at the stage of determination?	The monitoring plan explicitly and clearly distinguish: (i) Data and parameters that are not monitored throughout the crediting period, but are determined only once (and thus remain fixed throughout the crediting period), and that are available already at the stage of determination? (ii) Data and parameters that are not monitored throughout the crediting period, but are determined only once (and thus remain fixed throughout the crediting period), but that are not already available at the stage of determination? (iii) Data and parameters that are monitored throughout the crediting period), but that are not already available at the stage of determination? (iii) Data and parameters that are monitored throughout the crediting period.	ОК	ОК
36 (e)	Does the monitoring plan describe the methods employed for data monitoring	The monitoring plan clearly describes the methods employed for data monitored, such as direct measuring	ОК	ОК



DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	(including its frequency) and recording?	with metering devices and laboratory samples, account from bookkeeper invoices; frequency of monitoring procedures and recording		
36 (f)	Does the monitoring plan elaborate all algorithms and formulae used for the estimation/calculation of baseline emissions/removals and project emissions/removals or direct monitoring of emission reductions from the project, leakage, as appropriate?	The monitoring plan elaborates all formulae required to baseline and project emissions adjusted by leakages calculation	OK	OK
36 (f) (i)	Is the underlying rationale for the algorithms/formulae explained?	The underlying rationale for the formulae is explained	ОК	ОК
36 (f) (ii)	Are consistent variables, equation formats, subscripts etc. used?	All variables, equation formats, subscripts are used in consistent way	ОК	ОК
36 (f) (iii)	Are all equations numbered?	All equations are numbered	OK	OK
36 (f) (iv)	Are all variables, with units indicated defined?	All variables with units are indentified		
36 (f) (v)	Is the conservativeness of the algorithms/procedures justified?	The conservativeness of the procedures are justified	ОК	ОК
36 (f) (v)	To the extent possible, are methods to quantitatively account for uncertainty in key parameters included?	The monitoring plan in the section D.2 indicates methods of quantitatively account for uncertainty in key parameters included	ОК	ОК
36 (f) (vi)	Is consistency between the elaboration of the baseline scenario and the procedure for calculating the emissions or net removals of the baseline ensured?	Consistency between the elaboration of the baseline scenario and the baseline emission calculation procedure is ensured	ОК	ОК
36 (f) (vii)	Are any parts of the algorithms or formulae	The monitoring plan contains detailed explanation of	OK	OK



DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
36 (f) (vii)	that are not self-evident explained?Is it justified that the procedure isconsistentwithstandardtechnicalprocedures in the relevant sector?	each part of formulae The proposed monitoring plan is similar with monitoring plans of JI projects implemented at SIA "Antracit", SIA "Monolit", "Temp" LLC etc, determined by Global Carbon B.V.	ОК	ОК
36 (f) (vii) 36 (f) (vii)	Are references provided as necessary? Are implicit and explicit key assumptions	The references are provided in relevant points The explicit and implicit key assumptions are explained	OK OK	OK OK
	explained in a transparent manner?	in transparent manner		
36 (f) (vii)	Is it clearly stated which assumptions and procedures have significant uncertainty associated with them, and how such uncertainty is to be addressed?	The assumptions and procedures have significant uncertainty level associated with them are stated	ОК	ОК
36 (f) (vii)	Is the uncertainty of key parameters described and, where possible, is an uncertainty range at 95% confidence level for key parameters for the calculation of emission reductions or enhancements of net removals provided?	The uncertainty level of parameters monitored is indicated in the section D.2, quality control and quality assurance procedures. The uncertainty level of parameters monitored is indicated as low, only Probability of waste heap burning is indicated as medium	OK	ОК
36 (g)	Does the monitoring plan identify a national or international monitoring standard if such standard has to be and/or is applied to certain aspects of the project? Does the monitoring plan provide a reference as to where a detailed description of the standard can be found?	 The monitoring plan identifies next state ruling documents: (a) GOST 11022-95 and GOST 11014-2001 for sampling analysis process (b) GOST 305-82 on diesel fuel parameters References on detailed description of mentioned standard are provided 	ОК	ОК
36 (h)	Does the monitoring plan document statistical techniques, if used for monitoring, and that they are used in a	Not applicable for this project	OK	OK

B U R E A U V E R I T A S

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DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
36 (i)	conservative manner? Does the monitoring plan present the quality assurance and control procedures for the monitoring process, including, as appropriate, information on calibration and on how records on data and/or method validity and accuracy are kept and made available upon request?	The quality control and quality assurance procedures of monitoring process are presented. Information on project measuring devices calibration is provided	ОК	OK
36 (j)	Does the monitoring plan clearly identify the responsibilities and the authority regarding the monitoring activities?	The monitoring plan clearly identifies the responsibilities and the authorities regarding the monitoring activities, see please figure 9, section D.3 of the PDD	ОК	ОК
36 (k)	Does the monitoring plan, on the whole, reflect good monitoring practices appropriate to the project type? If it is a JI LULUCF project, is the good practice guidance developed by IPCC applied?	The monitoring plan is identical to monitoring plans in JI projects implemented at SIA "Antracit", SIA "Monolit", "Temp" LLC etc, determined by Global Carbon B.V.	ОК	ОК
36 (I)	Does the monitoring plan provide, in tabular form, a complete compilation of the data that need to be collected for its application, including data that are measured or sampled and data that are collected from other sources but not including data that are calculated with equations?	The monitoring plan provides in tabular form a complete compilation of the data collected and required for emission reduction calculation, including data that are measured or sampled and data that are collected from other sources but not including data that are calculated with equations	ОК	ОК
36 (m)	Does the monitoring plan indicate that the data monitored and required for verification	<u>CAR13</u> Please note in the monitoring plan that data monitored	CAR13	OK



DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	are to be kept for two years after the last transfer of ERUs for the project?	and required for ERUs calculation will be kept two years after the last ERUs transfer with reference on relevant order		
37	If selected elements or combinations of approved CDM methodologies or methodological tools are used for establishing the monitoring plan, are the selected elements or combination, together with elements supplementary developed by the project participants in line with 36 above?	Selected elements of CDM methodology ACM0009,Version 4.0.0 was used for leakages estimations in line within the section 36 above	OK	ОК
Approved	CDM methodology approach only_Paragra	phs 38(a) – 38(d)_Not applicable		
		I CDM methodology approach_Paragraph 39_Not appl	icable	
Leakage				
	approach only			
40 (a)	Does the PDD appropriately describe an assessment of the potential leakage of the project and appropriately explain which sources of leakage are to be calculated and which can be neglected?	The PDD appropriately describe an assessment of leakages related to project.	ОК	ОК
40 (b)	Does the PDD provide a procedure for an ex ante estimate of leakage?	The PDD contains a procedure for ex-ante estimate of leakages	ОК	ОК
	CDM methodology approach only_Paragra			
	of emission reductions or enhancements			
42	Does the PDD indicate which of the following approaches it chooses? (a) Assessment of emissions or net removals in the baseline scenario and in	The PDD indicates that assessment of emissions in the baseline scenario and in the project scenario was chosen	ОК	ОК



DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	the project scenario (b) Direct assessment of emission reductions			
43	If the approach (a) in 42 is chosen, does the PDD provide ex ante estimates of: (a) Emissions or net removals for the project scenario (within the project boundary)? (b) Leakage, as applicable? (c) Emissions or net removals for the baseline scenario (within the project boundary)? (d) Emission reductions or enhancements of net removals adjusted by leakage?	 The PDD provides ex ante estimates for period 15/09/2008-31/12/2012 (a) Emissions for the project scenario within the project boundary which is 161 861 tonnes of CO2 equivalent (b) Leakages which is -2 456 669 tonnes of CO2 equivalent (c) Emissions for the baseline scenario which is 8 434 178 tonnes of CO2 equivalent (d) Emission reductions adjusted by leakages which is 10 728 986 tonnes of CO2 equivalent <i>CAR14</i> Please check head of table 19 section E.6 in line with JI PDD form 	CAR14	ОК
44	If the approach (b) in 42 is chosen, does the PDD provide ex ante estimates of: (a) Emission reductions or enhancements of net removals (within the project boundary)? (b) Leakage, as applicable? (c) Emission reductions or enhancements of net removals adjusted by leakage?	See section 42 of this protocol	ОК	ОК
45	For both approaches in 42 (a) Are the estimates in 43 or 44 given: (i) On a periodic basis?	a) The estimates are given on (i) on a yearly basis (ii) from 15/09/2008 till 31/12/2012	ОК	ОК



DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	 (ii) At least from the beginning until the end of the crediting period? (iii) On a source-by-source/sink-by-sink basis? (iv) For each GHG? (v) In tones of CO2 equivalent, using global warming potentials defined by decision 2/CP.3 or as subsequently revised in accordance with Article 5 of the Kyoto Protocol? (b) Are the formula used for calculating the estimates in 43 or 44 consistent throughout the PDD? (c) For calculating estimates in 43 or 44, are key factors influencing the baseline emissions or removals and the activity level of the project and the emissions or net removals as well as risks associated with the project taken into account, as appropriate? (d) Are data sources used for calculating the estimates in 43 or 44 clearly identified, reliable and transparent? (e) Are emission factors (including default emission factors) if used for calculating the estimates in 43 or 44 selected by carefully balancing accuracy and reasonableness, and appropriately justified of the choice? 	 (iii) On a source-by-source/sink-by-sink basis for each GHG, which are CH4 and CO2 in tonnes of CO2 equivalent using global warming potentials defined by decision 2/CP.3 (b) The formula used for calculating in 43 is consistent throughout the PDD (c) The 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 for calculating estimates in 43 (d) The data sources used for calculations in 43 are clearly identified, reliable and transparent. (e) emission factors used for calculations in 43 are in line with National GHG Inventory Report approved by Ukrainian DFP (f) The estimations in 43 are based on conservative assumptions and the most plausible scenarios in a transparent manner (g) the estimates in 43 are consistent throughout the PDD (h) the annual average value of estimated emission reductions is calculated by dividing the total estimated emission reductions or enhancements of net removals over the crediting period by the total months of the crediting period and multiplying by twelve. 		



DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	(f) Is the estimation in 43 or 44 based on conservative assumptions and the most plausible scenarios in a transparent manner?			
	(g) Are the estimates in 43 or 44 consistent throughout the PDD?(h) Is the annual average of estimated			
	emission reductions or enhancements of net removals calculated by dividing the total estimated emission reductions or enhancements of net removals over the			
46	crediting period by the total months of the crediting period and multiplying by twelve?	The calculations of the baseline emissions are	ОК	ОК
40	or net removals is to be performed ex post, does the PDD include an illustrative ex ante emissions or net removals	performed ex-post for 2008-2011 years. PDD contains illustrative ex ante emissions calculations for 2012 year	UK .	UK .
	calculation?			
	CDM methodology approach only_Paragra ental impacts	phs 47(a) – 47(b)_Not applicable		
48 (a)	Does the PDD list and attach documentation on the analysis of the environmental impacts of the project, including transboundary impacts, in accordance with procedures as determined by the host Party?		ОК	ОК
48 (b)	If the analysis in 48 (a) indicates that the	The PDD provides conclusions and supporting	OK	OK



DVM Paragrap h	Check Item	Initial finding	Draft Conclusion	Final Conclusion		
	environmental impacts are considered significant by the project participants or the host Party, does the PDD provide conclusion and all references to supporting documentation of an environmental impact assessment undertaken in accordance with the procedures as required by the host Party?	documentation of an environmental impacts assessment accordance with the procedures determined by the host Party				
Stakeholde	er consultation					
49	If stakeholder consultation was undertaken in accordance with the procedure as required by the host Party, does the PDD provide: (a) A list of stakeholders from whom comments on the projects have been received, if any? (b) The nature of the comments? (c) A description on whether and how the comments have been addressed?		ОК	ОК		
	Determination regarding small-scale projects (additional elements for assessment)_Paragraphs 50 - 57_Not applicable					
	tion regarding land use, land-use change a tion regarding programmes of activities_Pa	nd forestry projects _Paragraphs 58 – 64(d)_Not appli aragraphs 66 – 73_Not applicable	cable			

DETERMINATION REPORT: WASTE HEAP #1, #2, #3 AND #5 DISMANTLING OF FRUNZE MINE WITH THE AIM OF DECREASING GREENHOUSE GASES EMISSION INTO THE ATMOSPHERE



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	Determination team conclusion
<u>CAR01</u> Please move photos of dismantled waste heap that section A.4.1.4 doesn't exceed one page	-	Provided: Section A.4.1.4 does not exceed one page according to " Guidelines FOR USERS OF THE JOINT IMPLEMENTATION PROJECT DESIGN DOCUMENT FORM"	The issue is closed
<u>CAR02</u> Please clarify mentioning of enrichment plant "Tandem-2006"	-	Name of the plant "Tandem 2006" was mentioned by mistake. Inconsistency is corrected.	The issue is closed
<u>CAR03</u> Please provide Letter of Endorsement	19	Added, Section A.5: Letter of endorsement # 2929/23/7 was received on 05/10/2012.	The issue is closed
<u>CAR04</u> Please provide written approvals from the both Parties Involved	19	Letter of approval from foreign country # 12.2-02/13625 was received on 12/10/2012. Letter of approval from SEIA will be received after determination.	Pending
<u>CAR05</u> Please indicate authorisation by Parties involved way for legal entities indicated as project participants	20	Added, Section A.5: Parties involved authorize PE "SPETSMONTAZH FC" (Ukraine) and SIA "Vidzeme Eko" (Latvia) to be participants of the project. Authorisation is confirmed by letter of endorsement and by letter of approval.	Pending



<u>CAR06</u> References 23 and 29 don't contain mentioned document. Please move on reference or provide reference on PDDs Annex	23	On this web page enter the "Publications" Energy statistics ". More detailed reference does not exist.	The issue is closed
<u>CAR07</u> Please use the latest version of mentioned CDM methodology and correctly indicate reference number of then	24	Reference number is correctly indicated: methodology ACM0009 version 04.0.0	The issue is closed
<u>CAR08</u> Please provide data comparing both project output in tonnes of coal and annual values of ERU	29(c)	In the proposed project the amount of obtained emission reduction resulting from the implementation of the project is 205.854 t of CO_2 equivalent per month of work, and in comparable project - 145,855 t of CO_2 equivalent (see Table 12). Thus, the average amount of processing in both projects does not differ by more than 50%, therefore meets the requirements of the Guidance.	The issue is closed
<u>CAR09</u> Please note relations between the project owner and owners of enrichment plant	32(a)	According to the Contract № 24/18-08 project owner transmits the rock under tolling.	The issue is closed
<u>CAR10</u> Please provide evidences that coal obtained in project frames will be used in Ukraine	32(a)	Carbonaceous fraction, which is the end product of this project, does not meet European standards for coal quality, therefore it is consumed only in the region where the project activities take place.	The issue is closed



1828					
В	U	R	Е	А	U
V	E	R	ΙT	А	S

CAR11 Please provide evidences on project starting date	34(a)	Provided, Section C.1. : The date of commencement of the project is on15/09/2008. From this date the dismantling of waste heap begins (according to the Order # 13/09/08)	The issue is closed
<u>CAR12</u> Please indicate length of crediting period and length of project operation lifetime in years and months	34(c)	Indicated, Section C.2 and C.3: The life cycle of the project will last from 15/09/2008 to 31/12/2012. Thus, the project life cycle is 4 years, 4 months or 52 months. Lengs of the crediting period - from 15/09/2008 to 31/12/2012., thus 4 years, 4 months or 52 months.	The issue is closed
<u>CAR13</u> Please note in the monitoring plan that data monitored and required for ERUs calculation will be kept two years after the last ERUs transfer with reference on relevant order		Noted in Section D.1: These documents and other data monitored and required for determination and verification, as well as any other data that are relevant to the operation of the project will be kept for at least two years after the last transfer of ERUs.	The issue is closed
<u>CAR14</u> Please check head of table 19 section E.6 in line with JI PDD form	43	Head of table is corrected	The issue is closed
CL01 Please clarify in the section of PDD dates of waste heaps strewing begin and end	-	Dates of waste heaps strewing begin and end are added in Table 2, Section A.4.1.4	The issue is closed

DETERMINATION REPORT: WASTE HEAP #1, #2, #3 AND #5 DISMANTLING OF FRUNZE MINE WITH THE AIM OF DECREASING BUREAU

Report No: Ukraine-det/0740/2012

GREENHOUSE GASES EMISSION INTO THE ATMOSPHERE				
<u>CL02</u> Please add information on penalty charges in the waste heap burning and state rules for prevention of the waste heap burning	23	As stated in Section B.2., fines paid for burning waste heaps are less than money spent for constant monitoring of its condition and measures to prevent its ignition. State program of measures of fire extinguishing does not exist. The instructions NPAOP 10.0-5.21-04 "Instructions to prevent spontaneous ignition, fire extinguishing and waste heaps dismantling" provides some measures of fire extinguishing, but in practice do not provide complete avoidance of ignition. The full guarantee of avoiding ignition provides only waste	The issue is closed	
		heap dismantling		