VERIFICATION REPORT
ING BANK N.V.

VERIFICATION OF THE INTRODUCTION OF ENERGY EFFICIENCY MEASURES AT OJSC "ENAKIEVO METALLURGICAL WORKS"

REPORT NO. UKRAINE-VER/0165/2010/1

REVISION NO. 04

BUREAU VERITAS CERTIFICATION

Report No: UKRAINE-ver/0165/2010/1

VERIFICATION REPORT

Date of first issue: 15/12/2010	Organizational unit: Bureau Veritas Certification Holding SAS
Client: ING Bank N.V.	Client ref.: Peter van Eijndhoven

Summary:
Bureau Veritas Certification has made the initial and 1st periodic verification of the "Introduction of energy efficiency measures at OJSC "Enakievo Metallurgical Works", project of ING Bank N.V. located in the town of Yenakiyeve, Donetsk region, Ukraine, and applying the JI specific approach, on the basis of UNFCCC criteria for the JI, as well as criteria given to provide for consistent project operations, monitoring and reporting. UNFCCC criteria refer to Article 6 of the Kyoto Protocol, the JI rules and modalities and the subsequent decisions by the JI Supervisory Committee, as well as the host country criteria.

The verification scope is defined as a periodic independent review and ex post determination by the Accredited Entity of the monitored reductions in GHG emissions during defined verification period, 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 verification report and opinion. The overall verification, from Contract Review to Verification Report & Opinion, was conducted using Bureau Veritas Certification internal procedures.

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

In summary, Bureau Veritas Certification confirms that the project is implemented as per determined changes. Installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately. The monitoring system is in place and the project is generating GHG emission reductions. The GHG emission reduction is calculated without material misstatements, and the ERUs issued totalize 901320 tons of CO_2eq for the monitoring period from 01/01/2008 to 30/06/2010 (by years: 01/01/2008-31/12/2008: 360 460 t CO2 equivalents, 01/01/2009-31/12/2009: 291 618 t CO2 equivalents, 01/01/2010-30/06/2010: 249 242 t CO2 equivalents).
Our opinion relates to the project's GHG emissions and resulting GHG emission reductions reported and related to the approved project baseline and monitoring, and its associated documents.

Report No.: UKRAINE-ver/0165/2010	Subject Group: JI	
Project title: "Introduction of energy efficiency measures at OJSC "Enakievo Metallurgical Works"		
Work carried out by: Oleg Skoblyk – Team Leader, Lead Verifier Kateryna Zinevych – Team Member, Verifier		
Work reviewed by: Ivan Sokolov – Internal technical reviewer		
Work approved by: Flavio Gomes – Operational manager		
Date of this revision: 11/02/2011	Rev. No.: 04	Number of pages: 31

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Abbreviations

CAR	Corrective Action Request
JI	Joint Implementation
ERU	Emission Reduction Unit
CL	Clarification Request
CO_2	Carbon Dioxide
IE	Independent Entity
GHG	Green House Gas(es)
I	Interview
IETA	International Emissions Trading Association
MoV	Means of Verification
NGO	Non Government Organization
PCF	Prototype Carbon Fund
PDD	Project Design Document
UNFCCC	United Nations Framework Convention for Climate Change

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1 INTRODUCTION

ING Bank N.V. has commissioned Bureau Veritas Certification to verify the emissions reductions of its JI project "Introduction of energy efficiency measures at OJSC "Enakievo Metallurgical Works" (hereafter called "the project") at the town of Yenakiyeve, Donetsk region, Ukraine.

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

1.1 Objective

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

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

Initial Verification: The objective of an initial verification is to verify that the project is implemented as planned, to confirm that the monitoring system is in place and fully functional, and to assure that the project will generate verifiable emission reductions. A separate initial verification prior to the project entering into regular operations is not a mandatory requirement.
Periodic Verification: The objective of the periodic verification is to verify that actual monitoring systems and procedures are in compliance with the monitoring systems and procedures described in the monitoring plan; furthermore the periodic verification evaluates the GHG emission reduction data and express a conclusion with a high, but not absolute, level of assurance about whether the reported GHG emission reduction data is free of material misstatements; and verifies that the reported GHG emission data is sufficiently supported by evidence, i.e. monitoring records. If no prior initial verification has been carried out, the objective of the first periodic verification also includes the objectives of the initial verification.

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

1.2 Scope

The verification scope is defined as an independent and objective review of the project design document, the project's baseline study and monitoring plan and other relevant documents. The information in these documents is reviewed against host country criteria.

The verification 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 monitoring towards reductions in the GHG emissions.

1.3 Verification Team

The verification team consists of the following personnel:

Oleg Skoblyk
Bureau Veritas Certification Team Leader, Climate Change Verifier

Kateryna Zinevych
Bureau Veritas Certification Climate Change Verifier

This verification report was reviewed by:

Ivan Sokolov
Bureau Veritas Certification, Internal Technical Reviewer

2 METHODOLOGY

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

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

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

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

2.1 Review of Documents

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

The verification findings presented in this report relate to the Monitoring Report version(s) 03 dated 30.11.2010 and project as described in the determined PDD.

During the process of project review the monitoring report was updated to the version 04 dated 21st of January 2011, which resulted in change of the Verification Report revision to the revision 02 dated 21st of January 2011. The next revision 03 dated 27th of January 2011 was caused by the addition of information considering receiving LoAs. After Internal Technical Review last revision of the Verification was issued as of 04 dated 11th February 2011.

2.2 Follow-up Interviews

On 13/10/2010 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 Greenstream, "EMW" were interviewed (see References). The main topics of the interviews are summarized in Table 1.

Table 1 Interview topics

Interviewed organization	Interview topics
"EMW"	Organizational structure. Responsibilities and authorities. Training of personnel. Quality management procedures and technology. Implementation of equipment (records). Metering equipment control. Metering record keeping system, database. Social impacts. Environmental impacts.
Consultant: GreenStream	Baseline methodology. Monitoring plan. Monitoring report. Deviations from PDD.

2.3 Resolution of Clarification, Corrective and Forward Action Requests

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

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

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

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

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

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

3 VERIFICATION CONCLUSIONS

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

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

The Clarification, Corrective and Forward Action Requests are stated, where applicable, in the following sections and are further documented in the Verification Protocol in Appendix A. The verification of the Project resulted in 7 Corrective Action Requests, 3 Clarification Requests.

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

3.1 Project approval by Parties involved (90-91)

Written project approval by Ukraine and the Netherlands has been issued by the DFP of that Party when submitting the first verification report to the secretariat for publication in accordance with paragraph 38 of the JI guidelines, at the latest.(see References)

The abovementioned written approval is unconditional.

3.2 Project implementation (92-93)

The implementation status of the project is reflecting that project was not completely operational for the monitoring period. There were no new measures implemented during reporting period in accordance to registered PDD version 2.21. The blast furnace #5 was implemented in 2007 in accordance to registered PDD version 2.21. Linde oxygen unit was commissioned in December 2006. Corresponding acts of acceptance for Linde oxygen unit and order of commissioning blast furnace #5 are attached separately.

All coke consumed by Enakievo Metallurgical Works during the monitoring period was produced in Ukraine (no imported coke is consumed during the monitoring period), which is evidenced by the relevant plant certificate and relevant expert opinion.

The starting date of operation is 01/01/2006.

There is a difference between emission reduction units in the registered PDD and monitoring report which is based on difference of actual data of natural gas net calorific value for 2008 and 2009.
The difference between emission reduction units in the registered PDD and monitoring report in 2010 is based on return of EMW to optimal operating conditions of iron production and it is lead to improvement of effective energy consumption per ton of iron produced.

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

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

For calculating the emission reductions or enhancements of net removals, key factors, such as (fuel availability, international steel market situation etc.), influencing the baseline emissions or net removals and the activity level of the project and the emissions or removals as well as risks associated with the project were taken into account, as appropriate.

Data sources used for calculating emission reductions or enhancements of net removals, such as (plant log-books, plant records and data base) are clearly identified, reliable and transparent.

Emission factors (Emission factor for natural gas, Emission factor for coal, Emission factor during coke production) including default emission factors, are selected by carefully balancing accuracy and reasonableness, and appropriately justified of the choice.

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

3.4 Revision of monitoring plan (99-100)

Not applicable.

3.5 Data management (101)

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

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

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

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

The data collection and management system for the project is in accordance with the monitoring plan. The data collected for the purposes of monitoring is stored in electronic and/or paper formats. All measurements perform by calibrated measurement equipment in accordance with the relevant industrial standards.

3.6 Verification regarding programmes of activities (102-110)

Not applicable.

4 VERIFICATION OPINION

Bureau Veritas Certification has performed initial and 1st periodic verification of the “Introduction of energy efficiency measures at OJSC “Enakievo Metallurgical Works”, project of ING Bank N.V. located in the town of Yenakiyeve, Donetsk region, Ukraine, and applying the JI specific approach. The verification was performed on the basis of UNFCCC criteria and host country criteria and also on the criteria given to provide for consistent project operations, monitoring and reporting.

The verification consisted of the following three phases: i) desk review of the project design and the baseline and monitoring plan; ii) follow-up

interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification report and opinion.

The management of "EMW" is responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions of the project on the basis set out within the project Monitoring and Verification Plan indicated in the final PDD version 2.21. The development and maintenance of records and reporting procedures in accordance with that plan, including the calculation and determination of GHG emission reductions from the project, is the responsibility of the management of the project.

Bureau Veritas Certification verified the Project Monitoring Report version 04 for the reporting period as indicated below. Bureau Veritas Certification confirms that the project is implemented as planned and described in approved project design documents. Installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately. The monitoring system is in place and the project is generating GHG emission reductions.

Bureau Veritas Certification can confirm that the GHG emission reduction is calculated without material misstatements. Our opinion relates to the project's GHG emissions and resulting GHG emissions reductions reported and related to the approved project baseline and monitoring, and its associated documents. Based on the information we have seen and evaluated, we confirm the following statement:

Reporting period: From 01/01/2008 to 30/06/2010
Baseline emissions : 12638174 t CO_2 equivalents.
Project emissions : 11736854 t CO_2 equivalents.
Emission Reductions (01/01/2008-30/06/2010): 901320 t CO_2 equivalents.
By years:
Emission Reductions (01/01/2008-31/12/2008):360 460 t CO_2 equivalents.
Emission Reductions (01/01/2009-31/12/2009): 291 618 t CO_2 equivalents.
Emission Reductions (01/01/2010-30/06/2010): 249 242 t CO_2 equivalents.

5 REFERENCES

Category 1 Documents:
Documents provided by GreenStream, EMW of the company that relate directly to the GHG components of the project.

1. PDD of JI project "Introduction of energy efficiency measures at OJSC "Enakievo Metallurgical Works" version 2.21 dated 14/07/2010.
2. Letter of Endorsement # 1380/23/7 issued 19/11/2009.
3. Emission Reductions calculations excel spreadsheet version 01
4. Monitoring Report version 01 dated 30.09.2010
5. Monitoring Report version 02 dated 08.11.2010
6. Monitoring Report version 03 dated 30.11.2010
7. Monitoring Report version 04 dated 21.01.2011
8. Emission Reductions calculations excel spreadsheet version 02
9. Letter of Approval from the Netherlands 2010 JI 28 issued by Ministry of Economic Affairs on 8th of September 2010
10. Letter of Approval from Ukraine 166/23/7 issued by National Environmental Investment Agency of Ukraine on 26th of January 2011.

Category 2 Documents:
Background documents related to the design and/or methodologies employed in the design or other reference documents.

/1/ Statement #38 of verification of maintenance of requirement of environmental medical regulations on OJSC "EMW" dated 27.05.2009.
/2/ Plant certificate 73/8 – 2262 dated 20.01.2011 issued by Commercial service.
/3/ Statement #40 of verification of maintenance of requirement of medical legislation dated 26.05.2010.
/4/ Statement of state entrance examination about putting into operation the built object dated 08.09.2008
/5/ Statement of calibration of scales of additions КИ7426-03 ДП№5 dated 7.06.2010
/6/ Statement of calibration of scales of additions КИ7426-07 ДП№5 dated 9.06.2010
/7/ Statement of control verification of scales of coke КИ7426-03 ДП№5 dated 16.06.09
/8/ Statement of control verification of scales of coke КИ7426-03 ДП№5 dated 16.06.09
/9/ Statement of control verification of scales of coke КИ7426-03 ДП№5 dated 25.06.08

/10/ Statement of control verification of scales of coke КИ7426-03 ДП№5 dated 26.06.08
/11/ Statement of verification of maintenance of requirement of environmental medical regulations on OJSC “EMW” dated 17.10.2008.
/12/ Statement of verification of maintenance of requirement of environmental medical regulations on OJSC “EMW” dated 25-26, 29.10.2008.
/13/ Statement of working commission about readiness of built object for presentation for the state entrance examination dated 26.06.2007
/14/ The balance of blast-furnace gas for August 2008
/15/ The balance of blast-furnace gas for April 2010
/16/ The balance of blast-furnace gas for December 2009
/17/ The balance of blast-furnace gas for May 2010
/18/ The balance of blast-furnace gas for March 2010
/19/ The balance of blast-furnace gas for February 2010
/20/ The balance of blast-furnace gas for January 2010
/21/ The balance of oxygen for November 2008
/22/ The balance of steam, water for January 2010
/23/ The balance of natural gas for August 2008
/24/ The balance of natural gas for August 2009
/25/ The balance of natural gas for August 2010
/26/ The balance of natural gas for April 2010
/27/ The balance of natural gas for June 2010
/28/ The balance of natural gas for May 2010
/29/ The balance of natural gas for March 2010
/30/ The balance of natural gas for September 2010
/31/ The balance of natural gas for february 2010
/32/ The balance of natural gas for January 2010
/33/ The balance of natural gas for November 2009
/34/ Pollutant and greenhouse gas emissions of production and technological processes, technological equipment(plants) into the air for 2007
/35/ Pollutant and greenhouse gas emissions of production and technological processes, technological equipment(plants) into the air for 2008. Plants for incineration<50мВт (steam generating units).
/36/ Certification field of the central analytical laboratory of control technical test department of OJSC “EMW” for carrying out measuring out of the field of state metrological control
/37/ Schedule of scale verification for August 2008
/38/ Schedule of scale verification for September 2008
/39/ Schedule of scale verification for July 2010
/40/ Schedule of scale verification for November 2009
/41/ Schedule of scale verification for September 2010
/42/ Schedule of scale verification for January 2009
/43/ Schedule of scale verification for January 2010
/44/ Schedule of repair of control-measuring equipment for October 2010
/45/ Schedule of periodical verification of measuring equipment, code of measuring - 05, type - physicochemical structure and qualities of substances measuring
/46/ Schedule of periodical verification of measuring equipment, code of measuring

- 06, type - temperature measuring

/47/ Diagram of steam pressure dated 13.03.09
/48/ Diagram of quantity of working water dated 6.10.10
/49/ Diagram of general consumption of gas dated 12.10.10
/50/ Diagram of fixation of natural gas dated 11.10.10
/51/ Diagram of fixation of natural gas dated 12.10.11
/52/ Diagram of fixation of natural gas dated 23.09.10
/53/ Addition to certificate attestation dated 17.05.2010 №06544-5-3-57-ВЛ
/54/ Permit #1412000000-33 on pollutant emissions into the air by stationary sources dated 16.12.2009.
/55/ Permit #1412000000-33 dated 13.06.2007 of corrective actions to the prmit №191193 on pollutant emissions into the air by stationary sources .
/56/ Permissible volumes of pollutant emissions which are the main sources of emissions(number of emission source on the scheme - 252)
/57/ Permissible volumes of pollutant emissions which are the main sources of emissions(number of emission source on the scheme - 255)
/58/ Blast-furnace, ДП№5 (common collector). Consumption of superheated steam per furnace
/59/ Blast-furnace, ДП№5. Consumption of saturated vapor.(boiler)
/60/ Blast-furnace, ДП№5. Consumption of superheated gas for underbell space.
/61/ Blast-furnace, ДП№5. Consumption of superheated steam in sluice chamber
/62/ Blast-furnace, ДП№5. Consumption of superheated steam for deduster
/63/ Blast-furnace, ДП№5. Consumption of superheated steam for humidification
/64/ Blast-furnace, ДП№5. Consumption of superheated steam for packing bell rod
/65/ Blast-furnace, ДП№5. Consumption of natural gas per furnace
/66/ Blast-furnace, ДП№5. Consumption of cold blast to ВН
/67/ Blast-furnace, ДП№5. Consumption of superheated steam in interbell space
/68/ Logbook "Air of oxygen house"
/69/ Actions directed to reduction of pollutant emissions into the air for 2007
/70/ Actions directed to reduction of pollutant emissions into the air for 2008
/71/ Actions directed to reduction of pollutant emissions into the air for 2009
/72/ Report of air protection for 2007. Form №2-ТП
/73/ Report of air protection for 2008. Form №2-ТП
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/75/ Report of air protection for I quarter of 2010
/76/ Report of air protection for II quarter of 2010
/77/ Registry of tests of external acceptance of raw materials, fuel and oils ЦАЛ, ОКИ, УТК.
/78/ Measuring methods of a great part of sulfur in coke and anthracite (at inspection test)
/79/ Measuring methods of great parts of caustic lime and magnesium in lime (at inspection test and control of engineering process)
/80/ Measuring methods of great parts of caustic lime and magnesium in lime (control of engineering process)
/81/ Loading of commission OJSC “EMW” dated 13.10.2010
/82/ Name of production and technological process, technological equipment (plant) for 2008. Production of lime

/83/ Name of production and technological process, technological equipment (plant) for 2008. Agglomeration plant
/84/ Name of production and technological process, technological equipment (plant) for 2008. Discontact technological furnaces. Other furnaces.
/85/ Name of production and technological process, technological equipment (plant) for 2008. Steel production in an electrical furnace
/86/ Name of production and technological process, technological equipment (plant) for 2008. Second production of copper
/87/ Name of production and technological process, technological equipment (plant) for 2008. Loading of blast-furnace
/88/ Name of production and technological process, technological equipment (plant) for 2008. Metal weld.
/89/ Name of production and technological process, technological equipment (plant) for 2008. Other types of industrial using of paint.
/90/ Name of production and technological process, technological equipment (plant) for 2008. Other types of transportation and reservation including turbodrives.
/91/ Name of production and technological process, technological equipment (plant) for 2008. Cowper stoves of blast-furnaces.
/92/ Name of production and technological process, technological equipment (plant) for 2008. Foundry for grey iron.
/93/ Name of production and technological process, technological equipment (plant) for 2008.
/94/ Name of production and technological process, technological equipment (plant) for 2008. Mechanical engineering (mechanical tratment of metal)
/95/ Name of production and technological process, technological equipment (plant) for 2008. Iron melting and pouring out of pigiron
/96/ Name of production and technological process, technological equipment (plant) for 2008. Rolling mills.
/97/ Name of production and technological process, technological equipment (plant) for 2008. Factory waste burning (excluding open burning)
/98/ Name of production and technological process, technological equipment (plant) for 2008. Technological processes in mechanical engineering, wood, pulp and paper industry, drink production industry and in other sectors etc
/99/ Name of production and technological process, technological equipment (plant) for 2008. Technological processes in ferrous metallurgy and coal industry.
/100/ Name of production and technological process, technological equipment (plant) for 2008. Transportation and reservation.
/101/ Name of production and technological process, technological equipment (plant). Processes of burning in boilers, gas turbines and stationary engines. Other stationary equipment for 2008.
/102/ Name of production and technological process, technological equipment (plant). Burning in industry. Plants for burning <50мВт (boilers) for 2007
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/112/ Passport - electrical counter №754302, type СА3У-И670М
/113/ Passport #19 dated 12.06.2009. Product - dolomitic limestone
/114/ Passport #23 dated 26.06.2009. Product - dolomitic limestone
/115/ List of actions about providing control for maintenance established permissible pollutant emissions and terms of permission for emissions
/116/ List of subcontracted companies and types of prepared works of complex of construction of blast-furnace #5 with reconstruction on infrastructure objects
/117/ Letter №13-296 dated 19.01.2009 of permission on emission.
/118/ Letter №13-8118 dated 21.12.2006 of permission on emission.
/119/ Letter №2308 dated 16.07.2007 of permission on emission.
/120/ Letter dated 05.11.2008 of permission on emission.
/121/ Letter dated 30.03.07 №2085/012 of prolongation permission on pollutant emissions into the air.
/122/ Order №711 dated 25.06.2010 of appointment of responsible people for saving initial information
/123/ Addition №38 of elimination of violation of medical legislation requirements dated 27.05.2009
/124/ Addition №40 dated 26.05.2010
/125/ Addition of elimination of violation of medical legislation requirements dated 17.10.2008
/126/ Protocol of calibration №61 dated 26.03.2009
/127/ Protocol of calibration №63 dated 30.03.2009
/128/ Protocol of calibration №66 dated 02.04.2009
/129/ Protocol of calibration №67 dated 06.04.2009
/130/ Protocol of calibration №73 dated 09.04.2009
/131/ Protocol of calibration №74 dated 23.04.2009
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/136/ Protocol of calibration №93 dated 21.05.2009
/137/ Protocol of calibration №94 dated 21.05.2009
/138/ Permission №191193 on pollutant emissions into the air by stationary sources.
/139/ Order №115 dated 30.06.2010 on appointment of responsible people for saving initial information
/140/ Order №53 dated 12.07.2010 on appointment of responsible people for saving initial information
/141/ Order of ЦСиП №68 dated 12.07.2010
/142/ Calculation list #1 for consumer for September 2008
/143/ Calculation list #20 for consumer. Oxygen workshop for December 2009
/144/ Calculation list #20 for consumer. Oxygen workshop for July 2007
/145/ Calculation list #20 for consumer. Oxygen workshop for June 2008

/146/ Calculation list #20 for consumer. Oxygen workshop for September 2010
/147/ Calculation list #21 for consumer. ТЭЦ-ПВС for December 2009
/148/ Calculation list #21 for consumer. ТЭЦ-ПВС for July 2007
/149/ Calculation list #21 for consumer. ТЭЦ-ПВС for June 2007
/150/ Calculation list #21 for consumer. ТЭЦ-ПВС for September 2010
/151/ Calculation list #3"a" for consumer. Blast-furnace shop for July 2008
/152/ Calculation list #3"a" for consumer. ДП-5 for April 2008
/153/ Calculation list #3"a" for consumer. Oxygen workshop for July 2008
/154/ Calculation list #3 "a" for consumer. ДП-5 for April 2008
/155/ Calculation list #3"b" for consumer. ДП-5 for December 2009
/156/ Calculation list #3"b" for consumer. ДП-5 for February 2010
/157/ Calculation list #3 "g" for consumer. ДП-5 for February 2010
/158/ Calculation list #3"d" for consumer. ДП-5 for April 2008
/159/ Calculation list #3"d" for consumer. ДП-5 for April 2010
/160/ Calculation list #3"d" for consumer. ДП-5 for June 2010
/161/ Calculation list #3"d" for consumer. ДП-5 for May 2010
/162/ Calculation list #3"d" for consumer. ДП-5 for March 2010
/163/ Calculation list #3"d" for consumer. ДП-5 for February 2010
/164/ Calculation list #3"i" for consumer. ДП-5 for December 2009
/165/ Calculation list #3 for consumer. Blast-furnace shop for December 2009
/166/ Calculation list #3 for consumer. Blast-furnace shop for July 2007
/167/ Calculation list #3 for consumer. Blast-furnace shop for June 2008
/168/ Information about quality of green feed directed to OJSC “EMW” for 2009
/169/ Information about quality of green feed directed to OJSC “EMW” for 9 months of 2010
/170/ Certificate of attestation. Date of registration 13.04.2007.Registration number 06544-2-4-31-ВЛ. It is valid to 13.04.2010.
/171/ Certificate of attestation. Date of registration 17.05.2010.Registration number 06544-5-3-57-ВЛ. It is valid to 17.05.2013.
/172/ Certificate of verification of working measuring instrument №02/04-1000 dated 02.08.2010p
/173/ Certificate of verification of working measuring instrument №02/04-1094 dated 26.10.2009
/174/ Certificate of verification of working measuring instrument №02/04-1097 dated 26.10.2009
/175/ Certificate of verification of working measuring instrument №02/04-1299 dated 08.12.2009
/176/ Certificate of verification of working measuring instrument №02/04-1300 dated 08.12.2009
/177/ Certificate of verification of working measuring instrument №02/04-325 dated 06.04.2010
/178/ Certificate of verification of working measuring instrument №02/04-514 dated 12.05.2010
/179/ Certificate of verification of working measuring instrument №02/04-530 dated 17.05.2010
/180/ Certificate of verification of working measuring instrument №02/04-620 dated 02.06.2010

/181/ Certificate of verification of working measuring instrument №02/04-623 dated 02.06.2010
/182/ Certificate of verification of working measuring instrument №02/04-627 dated 04.06.2010
/183/ Certificate of verification of working measuring instrument №02/04-632 dated 04.06.2010
/184/ Certificate of verification of working measuring instrument №02/04-649 dated 09.06.2010
/185/ Certificate of verification of working measuring instrument №02/04-650 dated 09.06.2010
/186/ Certificate of verification of working measuring instrument №02/04-837 dated 10.08.2009
/187/ Certificate of verification of working measuring instrument №02/04-997 dated 02.09.2010
/188/ Certificate of verification of working measuring instrument №02/04-998 dated 02.08.2010
/189/ Certificate of verification of working measuring instrument №02/04-999 dated 02.09.2010
/190/ Certificate №004794 dated 30.12.2008.
/191/ Certificate №005837 dated 31.12.2009. Product - blast-furnace coke>25mm
/192/ Certificate №006239 dated 30.12.2008.
/193/ Certificate №007806 dated 30.12.2008. Product - blast-furnace coke>25mm
/194/ Certificate №1090 dated 31.12.2007.
/195/ Certificate №128 dated 28.06.2007.
/196/ Certificate №160 dated 26.12.2009.
/197/ Certificate №161 dated 27.12.2009.
/198/ Certificate №1891dated 23.10.2010. Product - blast-furnace coke
/199/ Certificate #1 dated 1.12.2008. Product - blast-furnace coke>25mm
/200/ Certificate #2116 for original fluxing limestone shipped by Novotroitsk dated 23.10.2007
/201/ Certificate #2125 for original fluxing limestone shipped by Novotroitsk dated 25.10.2007
/202/ Certificate #2124 for original fluxing limestone shipped by Novotroitsk dated 31.12.2008
/203/ Certificate #21881 dated 17.12.2008
/204/ Certificate #21891 dated 19.12.2008
/205/ Certificate # 297 dated 29.01.2008 for original fluxing limestone shipped by Novotroitsk
/206/ Certificate №364 dated 11.02.2009 for original fluxing limestone shipped by Novotroitsk
/207/ Certificate #45 dated 10.12.2007
/208/ Certificate #510 dated 15.08.2010 for original fluxing limestone shipped by Novotroitsk
/209/ Certificate #517 dated 18.08.2010 for original fluxing limestone shipped by Novotroitsk
/210/ Certificate #79 dated 19.12.2009. Product - blast-furnace coke>25mm
/211/ Certificate #81 dated 17.12.2007

/212/ Certificate #861 dated 17.07.2009. Product - blast-furnace coke>25mm
/213/ Certificate #877 dated 21.07.2009. Product - blast-furnace coke>25mm
/214/ Certificate #93 dated 22.12.2009. Product - blast-furnace coke>25mm
/215/ Certificate #998 dated 31.12.2007
/216/ Quality certificate #006459 dated 31.07.2010. Product - blast-furnace coke>25mm
/217/ Quality certificate #008807 dated 30.07.2010. Product - blast-furnace coke>25mm
/218/ Quality certificate #129 dated 29.06.2007.
/219/ Quality certificate #178 dated 23.10.2010. Product - blast-furnace coke>25mm
/220/ Quality certificate #186 dated 25.01.2010. Product - blast-furnace coke>25mm
/221/ Quality certificate #2016 dared 17.11.2007
/222/ Quality certificate #2020 dated 18.11.2007
/223/ Quality certificate #36 Blast-furnace coke ДКПП 23.10.10
/224/ Quality certificate #37 Кокс доменный ДКПП 23.10.10
/225/ Quality certificate #46 "a" dated 10.10.2010. Product - blast-furnace coke>25mm
/226/ Quality certificate #51 dated 10.10.2010. Product - blast-furnace coke>25mm
/227/ Quality certificate #90 dated 9.06.2010. Product - fluxing limestone
/228/ Quality certificate #99 dated 27.06.2010. Product - fluxing limestone
/229/ Total pollutant and greenhouse gas emissions of companies for 2007
/230/ Total pollutant and greenhouse gas emissions of companies for 2008
/231/ Total pollutant and greenhouse gas emissions of companies for the I quarter of 2010
/232/ Total pollutant and greenhouse gas emissions of companies for the II quarter of 2010
/233/ The list of permissible volume of pollutant and greenhouse gas emissions into the air by stationary sources.
/234/ Technical reports for 2007-2010
/235/ Technical report to working out and certification system of realization of measuring a part of caustic lime and magnesium in the lime(during control of technological process)
/236/ Technical report to working out and certification system of realization of measuring a part of sulfur in the coke and anthracite (during entrance control)
/237/ CHP - ПВС, ТВД1-5 TI for 2008.
/238/ Track scales electromechanical,2357 ВВ-50 Э/1 Д, works number №57, inventory number №28
/239/ Photo - control point
/240/ Photo "Air-separating plant"
/241/ Photo "operational characteristics of plant Linde"
/242/ Photo "Scheme of oxygen plant Linde"
/243/ Photo "Oxygen meter FT 2615"
/244/ Photo "Oxygen meter FT 3924"
/245/ Photo "Oxygen meter FT7574"
/246/ Photo - scheme of pedestrian itinerary ДЦ
/247/ Photo - meter of natural gas #463786
/248/ Photo - scheme of blast-furnace

/249/ Characteristic of source of pollutant emissions into the air and their operation factors
/250/ Cold blast on ДП for October 2007
/251/ Rough notebook - natural gas
/252/ Certificate of attestation from 17.05.2010. Registartion # 06544-5-3-57 ВЛ. Valid up to 17.05.2013.
/253/ Statement #38 of verification of maintenance of requirement of environmental medical regulations on OJSC “EMW” dated 27.05.2009.

Persons interviewed:

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

/1/ Karavaschenko Denis - Head of administration of Energy Saving Technologies.
/2/ Klimash Andriy – acting head of electro technical laboratory.
/3/ Sharandin Mykolay – head of workshop of measuring system and thermal automatics.
/4/ Storozhenko Sergiy – head of central shop laboratory of metrology - main metrologist of EMW.
/5/ Zaika Volodymyr – head of networks and substations shop.
/6/ Kondratiev Yuriy – deputy head of blast-furnace shop for electrical equipment.
/7/ Podoynikova Maryna – acting deputy head of administration of Energy Saving Technologies.
/8/ Muradian Ivan – leading engineer of energy saving, DSP TOV Metinvest Holding.
/9/ Skarshevskiy Viktor – deputy head of energy programs, TOV Metinvest Holding.
/10/ Peter van Eijndhoven – vice president ING Bank.
/11/ Tadlia Konstantin – project manager, Green Stream.
/12/ Groza Yevgen – director, Ukraine, Green Stream.
/13/ Kozheshkurt Oleksandr – head of department of environmental protection.
/14/ Shatalova Svitlana – deputy head of department of environmental protection.
/15/ Morozov Igor – head of the laboratory of TU standardization.
/16/ Ilyasov Gadgy – head of department of control test.
/17/ Bogachova Nataliia – acting head of group of crude fuels and oils.
/18/ Kistina Valentina - acting deputy head of CMD – head of CAL.
/19/ Chernogorov Volodymyr – head of oxygen shop.

BUREAU VERITAS CERTIFICATION HOLDING SAS

VERIFICATION PROTOCOL

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

DVM Paragraph	Check Item	Initial finding	Action requested to project participants	Review of project Participants' action	Conclusion
Project approvals by Parties involved					
90	Has the DFPs of at least one Party involved, other than the host Party, issued a written project approval when submitting the first verification report to the secretariat for publication in accordance with paragraph 38 of the JI guidelines, at the latest?	CAR 1. There is no sign of the project approval by the Parties involved.	CAR 1. LoAs were presented to the verification team.	Closed.	OK
91	Are all the written project approvals by Parties involved unconditional?	See CAR 1.	-	Closed.	OK
Project implementation					
92	Has the project been implemented in accordance with the PDD regarding which the determination has been deemed final and is so listed on the UNFCCC JI website?	CAR 2. Please provide the schedule as well as description for the measures implemented only in 2007. It is not necessary to describe the whole project while some of its parts were/will be implemented later then during the monitoring period. CAR 3. Section C of	CAR 2 The blast furnace #5 was implemented in 2007 in accordance to registered PDD version 2.21. Measures that will be implemented later were deleted from MR. CAR 3	Closed.	OK

DVM Paragraph	Check Item	Initial finding	Action requested to project participants	Review of project Participants' action	Conclusion
		the MR version 1 states that monitoring plan foresees no additional equipment installation comparing to the one that was already installed while the monitoring period is 01.01.2007-31.12.2007, which does not cover the whole implementation period. Please clarify and correct.	Additional measures, resulting in installation of new measuring equipment or collection of additional parameters in addition to those that are already declared in PDD version 2.21 were not happened in 2007.	Closed.	
93	What is the status of operation of the project during the monitoring period?	CAR 4. According to the PDD version 2.21 as well as the documentation checked during the verification blast furnace №5 and Linde oxygen unit were already installed and operational. Please provide the information considering operational status of the project in the	The blast furnace #5 was commissioned in 2007 in accordance to registered PDD version 2.21. Linde oxygen unit was commissioned in December 2006. Corresponding acts of acceptance for Linde oxygen unit and order of commissioning blast furnace #5 are attached separately.	Closed	OK

DVM Paragraph	Check Item	Initial finding	Action requested to project participants	Review of project Participants' action	Conclusion
		MR.			
Compliance with monitoring plan					
94	Did the monitoring occur in accordance with the monitoring plan included in the PDD regarding which the determination has been deemed final and is so listed on the UNFCCC JI website?	Yes, the monitoring occured in accordance with the monitoring plan included in the PDD regarding which the determination has been deemed final and is so listed on the UNFCCC JI website.	-	-	OK
95 (a)	For calculating the emission reductions or enhancements of net removals, were key factors, e.g. those listed in 23 (b) (i)-(vii) above, influencing the baseline emissions or net removals and the activity level of the project and the emissions or removals as well as risks associated with the project taken into account, as appropriate?	Yes, for calculating the emission reductions or enhancements of net removals, key factors, e.g. those listed in 23 (b) (i)-(vii) above, influencing the baseline emissions or net removals and the activity level of the project and the emissions or removals as well as risks associated with the project were taken into account, as appropriate	-	-	OK
95 (b)	Are data sources used for calculating	CAR 5. Please	Excel file of the ERUs	Closed.	OK

DVM Paragraph	Check Item	Initial finding	Action requested to project participants	Review of project Participants' action	Conclusion
	emission reductions or enhancements of net removals clearly identified, reliable and transparent?	double check excel file of the ERUs calculation since the data there is not transparent and some references are not in English.	calculation has been updated		
95 (c)	Are emission factors, including default emission factors, if used for calculating the emission reductions or enhancements of net removals, selected by carefully balancing accuracy and reasonableness, and appropriately justified of the choice?	Yes, emission factors, including default emission factors, used for calculating the emission reductions or enhancements of net removals, were selected by carefully balancing accuracy and reasonableness, and appropriately justified of the choice	-	-	OK
Applicable to JI SSC projects only					
96	Is the relevant threshold to be classified as JI SSC project not exceeded during the monitoring period on an annual average basis? If the threshold is exceeded, is the maximum emission reduction level estimated in the PDD for the JI SSC project or the bundle for the monitoring period determined?	N/a	N/a	N/a	N/a
Applicable to bundled JI SSC projects only					
97 (a)	Has the composition of the bundle not changed from that is stated in F-JI-	N/a	N/a	N/a	N/a

DVM Paragraph	Check Item	Initial finding	Action requested to project participants	Review of project Participants' action	Conclusion
	SSCBUNDLE?				
97 (b)	If the determination was conducted on the basis of an overall monitoring plan, have the project participants submitted a common monitoring report?	N/a	N/a	N/a	N/a
98	If the monitoring is based on a monitoring plan that provides for overlapping monitoring periods, are the monitoring periods per component of the project clearly specified in the monitoring report? Do the monitoring periods not overlap with those for which verifications were already deemed final in the past?	N/a	N/a	N/a	N/a
Revision of monitoring plan					
Applicable only if monitoring plan is revised by project participant					
99 (a)	Did the project participants provide an appropriate justification for the proposed revision?	N/a	N/a	N/a	N/a
99 (b)	Does the proposed revision improve the accuracy and/or applicability of information collected compared to the original monitoring plan without changing conformity with the relevant rules and regulations for the establishment of monitoring plans?	N/a	N/a	N/a	N/a
Data management					
101 (a)	Is the implementation of data collection procedures in accordance with the monitoring plan, including the quality control and quality assurance procedures?	Yes, the implementation of data collection procedures is in accordance with the monitoring plan, including the quality	-	-	OK

DVM Paragraph	Check Item	Initial finding	Action requested to project participants	Review of project Participants' action	Conclusion
		control and quality assurance procedures			
101 (b)	Is the function of the monitoring equipment, including its calibration status, is in order?	CAR 6. The site visit revealed that calibration of the monitoring equipment is performed by the laboratory of the PP, which is not accredited to perform these services. Please clarify and correct. CAR 7. Please indicate in the MR serial numbers of the monitoring equipment as well as the last and next calibration dates.	CAR 6. In accordance to Ukrainian Law "On metrology and metrology activity" article 24 it is not necessary to obtain accreditation in case of using meters for own needs. CAR 7. Serial numbers and calibration dates are added to monitoring report.	Closed. Closed.	OK
101 (c)	Are the evidence and records used for the monitoring maintained in a traceable manner?	Yes, the evidence and records used for the monitoring are maintained in a traceable manner	-	-	OK
101 (d)	Is the data collection and management system for the project in accordance with the monitoring plan?	Yes, the data collection and management system for the project is in accordance with the monitoring plan.	-	-	OK

DVM Paragraph	Check Item	Initial finding	Action requested to project participants	Review of project Participants' action	Conclusion
		CL 1. Please clarify what is meant under numbers on the Figure 3 on the p.10 of the MR version 1. CL 2. Please clarify if the PP performs any trainings for the staff that operates project equipment. CL 3. Please clarify if there are any troubleshooting procedures.	CL 1. Numbers correspond to ID number of monitored parameters presented at section D.2 Tables 3, 4.) CL 2. With the purpose of operation the Linde oxygen unit and Blast Furnace #5 OJSC "EMW" held trainings of personnel. Corresponding changes were added to MR. CL 3. EMW uses standards of enterprise STP 235-6-42-2009 (previous STP 235-6-42-2005) "Classification, hold an inquiry and registration of breakdown and other equipment downtimes led to production loss" in accordance to that all malfunctions identified by the staff of EMW is recorded into the acts.	Please indicate names of the parameters in the scheme. Parameter names were added to the text. Closed. Closed.	
Verification regarding programs of activities (additional elements for assessment)					
102	Is any JPA that has not been added to the JI PoA not verified?	N/a	N/a	N/a	N/a
103	Is the verification based on the monitoring reports of all JPAs to be verified?	N/a	N/a	N/a	N/a
103	Does the verification ensure the accuracy and conservativeness of the emission reductions or enhancements of removals generated by each JPA?	N/a	N/a	N/a	N/a

DVM Paragraph	Check Item	Initial finding	Action requested to project participants	Review of project Participants' action	Conclusion
104	Does the monitoring period not overlap with previous monitoring periods?	N/a	N/a	N/a	N/a
105	If the AIE learns of an erroneously included JPA, has the AIE informed the JISC of its findings in writing?	N/a	N/a	N/a	N/a
Applicable to sample-based approach only					
106	Does the sampling plan prepared by the AIE: (a) Describe its sample selection, taking into account that: (i) For each verification that uses a sample-based approach, the sample selection shall be sufficiently representative of the JPAs in the JI PoA such extrapolation to all JPAs identified for that verification is reasonable, taking into account differences among the characteristics of JPAs, such as: − The types of JPAs; − The complexity of the applicable technologies and/or measures used; − The geographical location of each JPA; − The amounts of expected emission reductions of the JPAs being verified; − The number of JPAs for which emission reductions are being verified; − The length of monitoring periods of the JPAs being verified; and − The samples selected for prior verifications, if any?	N/a	N/a	N/a	N/a
107	Is the sampling plan ready for publication through the secretariat along with the verification report and supporting documentation?	N/a	N/a	N/a	N/a

DVM Paragraph	Check Item	Initial finding	Action requested to project participants	Review of project Participants' action	Conclusion
108	Has the AIE made site inspections of at least the square root of the number of total JPAs, rounded to the upper whole number? If the AIE makes no site inspections or fewer site inspections than the square root of the number of total JPAs, rounded to the upper whole number, then does the AIE provide a reasonable explanation and justification?				
109	Is the sampling plan available for submission to the secretariat for the JISC.s ex ante assessment? (Optional)	N/a	N/a	N/a	N/a
110	If the AIE learns of a fraudulently included JPA, a fraudulently monitored JPA or an inflated number of emission reductions claimed in a JI PoA, has the AIE informed the JISC of the fraud in writing?	N/a	N/a	N/a	N/a

Appendix B: Verifiers CV's

Oleg Skoblyk, Specialist (Power Management)
Climate Change Verifier
Bureau Veritas Ukraine HSE Department project manager.
Oleg Skoblyk has graduated from National Technical University of Ukraine 'Kyiv Polytechnic University" with specialty Power Management. He has successfully completed IRCA registered Lead Auditor Training Course for Environment Management Systems and Quality Management Systems. Oleg Skoblyk has undergone intensive training on Clean Development Mechanism /Joint Implementation and he is involved in the determination/verification of 20 JI projects.

Kateryna Zinevych, M.Sci. (environmental science)

Bureau Veritas Ukraine Health, Safety and Environment Project Manager

Kateryna Zinevych has graduated from National University of Kyiv-Mohyla Academy with the Master Degree in Environmental Science. She has experience at working in a professional position (analytics) involving the exercise of judgment, problem solving and communication with other professional and managerial personnel as well as customers and other interested parties at analytical centre "Dergzovnishinform" and "Burea Veritas Ukraine" LLC. She has successfully completed IRCA registered Lead Auditor Training Course for Environment Management Systems and Quality Management Systems. She has successfully completed Climate Change Verifier Training Course and she participated as verifier in the determination/verification of 26 JI projects.

Report was reviewed by:

Ivan G. Sokolov, Dr. Sci. (biology, microbiology)

Climate Change Lead Verifier, Bureau Veritas Certification Holding SAS Local Climate Change Product Manager for Ukraine

Acting CEO Bureau Veritas Black Sea District

He has over 25 years of experience in Research Institute in the field of biochemistry, biotechnology, and microbiology. He is a Lead auditor of Bureau Veritas Certification for Environment Management System (IRCA registered), Quality Management System (IRCA registered), Occupational Health and Safety Management System, and Food Safety Management System. He performed over 140 audits since 1999. Also he is Lead Tutor of the IRCA registered ISO 14000 EMS Lead Auditor Training Course, and Lead Tutor of the IRCA registered ISO 9000 QMS Lead Auditor Training Course. He is Lead Tutor of the Clean Development Mechanism /Joint Implementation Lead Verifier Training Course and he was involved in the determination/verification over 60 JI/CDM projects.