

VERIFICATION REPORT VEMA S.A.

VERIFICATION OF THE "METHANE LEAKS REDUCTION AND IMPLEMENTATION OF ENERGY EFFICIENCY MEASURES AT TECHNOLOGICAL EQUIPMENT OF PUBLIC JOINT STOCK COMPANY "NATIONAL JOINT STOCK COMPANY "CHORNOMORNAFTOGAZ"

INITIAL AND FIRST PERIODIC VERIFICATION (01/01/2008 – 31/12/2011)

REPORT NO. UKRAINE-VER/0498/2012 REVISION NO. 01

BUREAU VERITAS CERTIFICATION



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Date of first issue: 21/05/2012				ertification Holding	
Client:		SAS Client ref.:			
VEMA S.A.		Fabian	Knodel		
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Report No.:		Subject Group:	7		
UKRAINE-ver/049	8/2012	JI			
Project title: "Methane leaks re energy efficiency equipment of Public Joint Stock Compan	measures Joint Stock	at technologica Company "Nationa	al		
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Work approved by: Ivan Sokolov – Oper	rational Mana	ager	RIION	Limited distribution	
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Abbreviations

AIE	Accredited Independent Entity
BVC	Bureau Veritas Certification Holding SAS
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CL	Clarification Request
CO ₂	Carbon Dioxide
DVM	Determination and Verification Manual
ERU	Emission Reduxtion Unit
FAR	Forward Action Request
GHG	Green House Gas(es)
IPCC	Intergovernmental Panel on Climate Change
JI	Joint Implementation
JISC	Joint Implementation Supervisory Committee
MP	Monitoring Plan
MR	Monitoring Report
DFP	Designated Focal Point
QA/QC	Quality Assurance/Quality Control
PDD	Project Design Document
UNFCCC	United Nations Framework Convention for Climate Change



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1 INTRODUCTION

VEMA S.A. has commissioned Bureau Veritas Certification to verify the emissions reductions of its JI project "Methane leaks reduction and implementation of energy efficiency measures at technological equipment of Public Joint Stock Company "National Joint Stock Company "Chornomornaftogaz" (hereafter called "the project") at the Autonomous Republic of Crimea and the Black Sea shelf and the Sea of Azov shelf, Ukraine.

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

1.1 Objective

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

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

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

1.2 Scope

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

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

1.3 Verification Team

The verification team consists of the following personnel:

Oleg Skoblyk

Bureau Veritas Certification Team Leader, Climate Change Lead Verifier



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Olena Manziuk Bureau Veritas Certification Team Member, Climate Change Verifier

Oleksandr Kuzmenko Bureau Veritas Certification Team Member, Technical Specialist

This verification report was reviewed by:

Ivan Sokolov

Bureau Veritas Certification Internal Technical Reviewer

Vasiliy Kobzar Bureau Veritas Certification Technical Specialist

2 METHODOLOGY

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

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

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

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

2.1 Review of Documents

The Monitoring Report (MR) submitted by VEMA S.A. and additional background documents related to the project design and baseline, i.e. country Law, Project Design Document (PDD), JI specific approach developed in accordance with 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.



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The verification findings presented in this report relate to the Monitoring Report version 01 dated 07/02/2012, the Monitoring Report version 02 dated 18/05/2012, and project as described in the determined PDD.

2.2 Follow-up Interviews

On 24/04/2012 Bureau Veritas Certification during site visit performed interviews with project stakeholders to confirm selected information and to resolve issues identified in the document review. Representatives of VEMA S.A. and Public Joint Stock Company "National Joint Stock Company "Chornomornaftogas" were interviewed (see section 5 References). The main topics of the interviews are summarized in Table 1 below.

Interviewed	Interview topics
organization	
State Enterprise "Production Association Yuzhny Machine- Building Plant named after A.Makarov"	 > 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 > Monitoring procedure
Institute of Engineering Ecology	 > Baseline methodology > Monitoring plan > Monitoring report > Deviations from PDD > Emission reduction calculation

 Table 1
 Interview topics

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:



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

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

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

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

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

3 VERIFICATION CONCLUSIONS

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

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

The Clarification Request and Corrective 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 seven Corrective Action Requests and two Clarification Request.

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

3.1 Remaining issues and FARs from previous verifications

One Forward Action Request (i.e., FAR01) from determination is remaining. FAR01 was raised to ensure that the data monitored and required for verification are to be kept for two years after the last transfer of ERUs, and the PJSC "NJSC "Chornomornaftogas" is required to prepare a special documented instruction on monitoring data storage.

Project participants provided a document that states the period of monitoring data storage (Order # 246-np dated 23/05/2012 of PJSC "NJSC



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"Chornomornaftogas"). Order is issued by the PJSC "NJSC "Chornomornaftogas" and it is valid from 23/05/2012. Additionally, verification team checked the monitoring procedure realization and the scheme of monitoring data records during site visit and found it satisfactory. Documented evidences of monitoring data are stored in paper and electronic versions. So, FAR01 from determination is closed.

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

Written project approval (LoA # 1271/23/7 dated 17/05/2012) by the host Party (Ukraine) has been issued by the State Environmental Investment Agency of Ukraine.

Moreover, the Federal Office for the Environment (FOEN, Switzerland) has issued the Letter of Approval # J294-0485 dated 14/05/2012 for this project acting as the Designated National Authority of that Party (refer to the section 5 References of this report).

The abovementioned written approvals are unconditional.

The identified areas of concern as to project approval by Parties involved, project participants response and BV Certification's conclusion are described in Appendix A (refer to CAR01).

3.3 Project implementation (92-93)

The JI project "Methane leaks reduction and implementation of energy efficiency measures at technological equipment of Public Joint Stock Company "National Joint Stock Company "Chornomornaftogaz" main goal is implementing of the program of technical improvement and rehabilitation of the natural gas production, storage, preparation and transportation system, the introduction of advanced technologies for transition to a higher level of transportation, measurement and storage of natural gas.

Project scenario of regarded JI project is based on the measures of new energy efficient equipment implementation, and a list of measures aimed at reducing emissions from natural gas leaks in elements of the gas transportation system. The leaks at technological equipment of PJSC "NJSC "Chornomornaftogaz" are to be significantly reduced due to the JI project measures realization and execution of constant monitoring of potential sources of leaks and prevention of their occurrence.

Project activity is realized according to the schedule of JI project implementation that was stated in the PDD version 02. All details about installed project equipment for the monitoring period are described in the monitoring report (MR) and in supporting document 1 to the MR.



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Project activity is based on repair and replacement of gas fitting and equipment of natural gas extraction, preparation, storage, and distribution systems of PJSC "NJSC "Chornomornaftogaz". Also, for the monitoring period project activity was aimed in further investigation and maintenance all gas equipment and fitting that were repaired due to the project activity implementation.

Gas equipment repaired in previous years are checked in a regular frequency as anticipated by monitoring plan. This activity is needed for preventative measures to eliminate leaks sources.

According to the monitoring plan approved in the PDD, current repair of gas equipment is carried out once per year and technical maintenance is performed once per six months.

As stated in the monitoring report, GHG emission reductions were achieved due to the JI project activity implementation, and the amount of the emission reductions (ER) for the monitoring period 01/01/2008 - 31/12/2011 is equal 5 480 733 tonnes CO₂ equivalent that is slightly lower than anticipated by PDD for the same monitoring period.

No revision or deviation from the PDD for regarded monitoring period are occur.

The identified areas of concern as to project implementation, project participants response and BV Certification's conclusion are described in Appendix A (refer to CAR02 and CL01).

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

The monitoring occurred in accordance with the monitoring plan included in the PDD version 02 regarding which the determination has been deemed final. According to the PDD, selection of monitoring approach was made in compliance with "Guidance on criteria for baseline setting and monitoring". The project developer used JI specific approach for establishing the monitoring. The JI specific approach of the JI project was developed based on approved CDM methodology AM0023 "Leak reduction from natural gas pipeline compressor or gate stations" (version 04.0.0). Collection of all key parameters required to calculate greenhouse gas emissions is undertaken in compliance with the established practice of the Public Joint Stock Company "National Joint Stock Company "Chornomornaftogas" to meter methan leaks and environmental impacts.

For calculating the emission reductions key factors, such as global warming potential of CH_4 , gas pressure, gas temperature, concentration of



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methane in the sample, number of operation hours of equipment where leak was detected during the year, uncertainty range for the flow rate measurement method applied to physical leak, etc. as well as risks associated with the JI project were taken into account, as appropriate.

Data sources used for calculating emission reductions, such as calibrated measurement equipment, IPCC, approved methodology, and national standards are clearly identified, reliable and transparent. On site responsible persons register data from the measurement equipments and fixed monitoring data to special reporting form and logbooks. Moreover, there is electronic database. In detail, registration of monitoring parameters at the enterprise is conducted in accordance with identified procedure of data collection. As per situation, JI working group coordinates the project activity and performance of monitoring procedure. Secretary, engineer, technical engineer, and metrologist of PJSC "NJSC "Chornomornaftogas" are reporting to the JI working group. And JI working group transfer monitoring information to the VEMA S.A. representatives for processing and preparation the periodic monitoring reports.

In general, all roles and responsibilities connected with JI project at PJSC "NJSC "Chornomornaftogas" are established in accordance with procedure described in section D "Monitoring plan" of the registered PDD version 02 dated 05/04/2012.

Global Warming potential of CH₄ is selected by carefully balancing accuracy and reasonableness, and appropriately justified of the choice.

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

The identified areas of concern as to compliance of the monitoring plan with the monitoring methodology, project participants response and BV Certification's conclusion are described in Appendix A (refer to CAR03, CAR04, and CAR05).

3.5 Revision of monitoring plan (99-100)

The monitoring plan of JI project that established in the PDD version 02 has no revision or deviation in the monitoring period 01/01/2008-31/12/2011. Thus, this section is not applicable.

3.6 Data management (101)

As a result of site visit, documents revision, and verification process at all there is concluded that the data and their sources, provided in monitoring report, are clearly identified, reliable and transparent.



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The implementation of data collection procedures is in accordance with the monitoring plan, including the quality control and quality assurance procedures. For instance, additional internal maintenance and control measures, participation of third parties, and troubleshooting procedures are conducted by the main specialists of PJSC "NJSC "Chornomornaftogas". These procedures are described in detailed in the registered project design document.

According to the documents on measurement equipments and its calibration certificates, the function of the monitoring equipment, including its calibration status, is in order.

During site visit registration forms and logbooks with initial data were revised, and electronic database was checked and discovered as reliable and functional. Thus, the evidence and records used for the monitoring are maintained in a traceable manner.

The data collection and management system for the JI project "Methane leaks reduction and implementation of energy efficiency measures at technological equipment of Public Joint Stock Company "National Joint Stock Company "Chornomornaftogaz" is in accordance with monitoring plan that is registered in the PDD.

The identified areas of concern as to the data management, project participants response and BV Certification's conclusion are described in Appendix A (refer to CAR06, CAR07, and CL02).

3.7 Verification regarding programmes of activities (102-110)

Not applicable.



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4 VERIFICATION OPINION

Bureau Veritas Certification has performed initial and first periodic verification of the project "Methane leaks reduction and implementation of energy efficiency measures at technological equipment of Public Joint Stock Company "National Joint Stock Company "Chornomornaftogaz" in the Autonomous Republic of Crimea and the Black Sea shelf and the Sea of Azov shelf, Ukraine, which applies the JI specific approach developed in accordance with the Guidance on Criteria for Baseline Setting and Monitoring. The verification was performed on the basis of UNFCCC criteria and host country criteria and also on the criteria given to provide for consistent project operations, monitoring and reporting.

The verification consisted of the following three phases: i) desk review of the monitoring report against project design 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 VEMA S.A. is responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions of the project on the basis set out within the project Monitoring Plan as per indicated in the final PDD version 02. 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 02 dated 18/05/2012 for the reporting period as indicated below. Bureau Veritas Certification confirms that the project is implemented as planned and described in approved project design documents. Installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately. The monitoring system is in place and the project is generating GHG emission reductions.

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



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<u>Reporting period</u> : From 01/01/2008 to 31/12/2008						
Baseline emissions		tonnes CO ₂ equivalent				
Project emissions	: 70 861	tonnes CO ₂ equivalent				
Emission Reductions (2008)	: 1 258 538	tonnes CO2 equivalent				
Reporting period: From 01/01	1/2009 to 31/12/2	2009				
Baseline emissions		tonnes CO ₂ equivalent				
Project emissions	: 71 791	tonnes CO ₂ equivalent				
Emission Reductions (2009)	: 1 275 590	tonnes CO2 equivalent				
Reporting period: From 01/01	1/2010 to 31/12/2	2010				
Baseline emissions		tonnes CO ₂ equivalent				
Project emissions	: 78 979	tonnes CO2 equivalent				
Emission Reductions (2010)	: 1 403 554	tonnes CO2 equivalent				
Reporting period: From 01/01	1/2011 to 31/12/2	2011				
Baseline emissions		tonnes CO ₂ equivalent				
Project emissions		tonnes CO ₂ equivalent				
Emission Reductions (2011)		tonnes CO ₂ equivalent				
Total amount of emission	reductions for	the monitoring period	f			

Total amount of emission reductions for the monitoring period from 01/01/2008 to 31/12/2011 is 5 480 733 tonnes CO₂ equivalent.

Emission reductions, project emissions and baseline emissions which are stated above are rounded by monitoring report developers to the whole figure (1t) and are based on calculations which are demonstrated in excel file attached to the monitoring report.



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5 REFERENCES

Category 1 Documents:

Documents provided by VEMA S.A. that relate directly to the GHG components of the project.

- /1/ PDD of the JI project "Methane leaks reduction and implementation of energy efficiency measures at technological equipment of Public Joint Stock Company "National Joint Stock Company "Chornomornaftogaz" version 02 dated 05/04/2012;
- /2/ Monitoring reort of JI project "Methane leaks reduction and implementation of energy efficiency measures at technological equipment of Public Joint Stock Company "National Joint Stock Company "Chornomornaftogaz" for the monitoring period 01/01/2008 – 31/12/2011 version 01 dated 07/02/2012;
- /3/ Monitoring report of JI project "Methane leaks reduction and implementation of energy efficiency measures at technological equipment of Public Joint Stock Company "National Joint Stock Company "Chornomornaftogaz" for the monitoring period 01/01/2008 – 31/12/2011 version 02 dated 18/05/2012;
- /4/ Determination Report # UKRAINE-det/0415/2011 dated 06/04/2012 of JI project "Methane leaks reduction and implementation of energy efficiency measures at technological equipment of Public Joint Stock Company "National Joint Stock Company "Chornomornaftogaz";
- /5/ Letter of Approval # 1271/23/7 dated 17/05/2012 of the JI project "Methane leaks reduction and implementation of energy efficiency measures at technological equipment of Public Joint Stock Company "National Joint Stock Company "Chornomornaftogaz" issued by the State Environmental Investment Agency of Ukraine;
- /6/ Letter of Approval # J294-0485 dated 14/05/2012 of the JI project "Methane leaks reduction and implementation of energy efficiency measures at technological equipment of Public Joint Stock Company "National Joint Stock Company "Chornomornaftogaz" issued by the Federal Office for the Environment (FOEN) of Switzerland.

Category 2 Documents:

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

/1/ Protocol # 1 of the working group meeting of JI project "Methane leaks reduction and implementation of energy efficiency measures at technological equipment of Public Joint Stock Company "National Joint Stock Company "Chornomornaftogaz" dated 07/12/2005



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- /2/ Protocol # 2 of the working group meeting of JI project "Methane leaks reduction and implementation of energy efficiency measures at technological equipment of Public Joint Stock Company "National Joint Stock Company "Chornomornaftogaz" dated 21/12/2006
- /3/ Protocol # 3 of the working group meeting of JI project "Methane leaks reduction and implementation of energy efficiency measures at technological equipment of Public Joint Stock Company "National Joint Stock Company "Chornomornaftogaz" dated 26/12/2006
- /4/ Protocol # 4 of the working group meeting of JI project "Methane leaks reduction and implementation of energy efficiency measures at technological equipment of Public Joint Stock Company "National Joint Stock Company "Chornomornaftogaz" dated 21/12/2007
- /5/ Protocol # 5 of the working group meeting of JI project "Methane leaks reduction and implementation of energy efficiency measures at technological equipment of Public Joint Stock Company "National Joint Stock Company "Chornomornaftogaz" dated 24/12/2007
- /6/ Protocol # 6 of the working group meeting of JI project "Methane leaks reduction and implementation of energy efficiency measures at technological equipment of Public Joint Stock Company "National Joint Stock Company "Chornomornaftogaz" dated 22/12/2008
- /7/ Protocol # 7 of the working group meeting of JI project "Methane leaks reduction and implementation of energy efficiency measures at technological equipment of Public Joint Stock Company "National Joint Stock Company "Chornomornaftogaz" dated 25/12/2008
- /8/ Protocol # 8 of the working group meeting of JI project "Methane leaks reduction and implementation of energy efficiency measures at technological equipment of Public Joint Stock Company "National Joint Stock Company "Chornomornaftogaz" dated 21/12/2009
- /9/ Protocol # 9 of the working group meeting of JI project "Methane leaks reduction and implementation of energy efficiency measures at technological equipment of Public Joint Stock Company "National Joint Stock Company "Chornomornaftogaz" dated 25/12/2009
- /10/ Protocol # 10 of the working group meeting of JI project "Methane leaks reduction and implementation of energy efficiency measures at technological equipment of Public Joint Stock Company "National Joint Stock Company "Chornomornaftogaz" dated 21/12/2010
- /11/ Protocol # 11 of the working group meeting of JI project "Methane leaks reduction and implementation of energy efficiency measures



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at technological equipment of Public Joint Stock Company "National Joint Stock Company "Chornomornaftogaz" dated 24/12/2010

- /12/ Protocol # 12 of the working group meeting of JI project "Methane leaks reduction and implementation of energy efficiency measures at technological equipment of Public Joint Stock Company "National Joint Stock Company "Chornomornaftogaz" dated 19/12/2011
- /13/ Certificate # 018810 of measurement device calibration, ser.# 957 dated 20/03/2006. It is valid for 6 months.
- /14/ Certificate # 020579 of measurement device calibration, ser. # 42 dated 03/04/2006. It is valid for 6 months.
- /15/ Certificate # 029713 of measurement device calibration, ser.# 607 dated 16/10/2006. It is valid for 6 months.
- /16/ Certificate # 006226 of measurement device calibration, ser.# 607 dated 19/03/2007. It is valid for 6 months.
- /17/ Certificate # 016544 of measurement device calibration, ser. # 43 dated 29/10/2007. It is valid for 6 months.
- /18/ Certificate # 016512 of measurement device calibration, ser.# 123 dated 29/10/2007. It is valid for 6 months.
- /19/ Certificate # 022339 of measurement device calibration, ser.# 605 dared 17/03/2008. It is valid for 1 year.
- /20/ Certificate # 022336 of measurement device calibration, ser. # 23 dated 17/03/2008. It is valid for 1 year.
- /21/ Certificate # 022340 of measurement device calibration, ser.# 607 dated 17/03/2008. It is valid for 1 year.
- /22/ Certificate # 036553 of measurement device calibration, ser.# 607 dated 16/03/2009. It is valid for 1 year.
- /23/ Certificate # 036554 of measurement device calibration, ser.# 605 dated 16/03/2009. It is valid for 1 year.
- /24/ Certificate # 038809 of measurement device calibration, ser.# 668 dated 23/06/2009. It is valid to 23/06/2010.
- /25/ Certificate # 047489 of measurement device calibration, ser. # 1201 dated 15/03/2010. It is valid to 15/03/2011
- /26/ Certificate # 046696 of measurement device calibration, ser.# 605 dated 15/03/2010. It is valid to 15/03/2011
- /27/ Certificate # 046697 of measurement device calibration, ser.# 607 dated 15/03/2010. It is valid to 15/03/2011
- /28/ Certificate # 059880 of measurement device calibration, ser.# 183 dated 30/06/2011. It is valid to 30/06/2012
- /29/ Certificate # 062980 of measurement device calibration, ser. # 42 dated 27/04/2011. It is valid to 27/04/2012
- /30/ Certificate # 064117 of measurement device calibration, ser. # 43 dated 15/12/2011. It is valid to 15/12/2012
- /31/ Certificate # 065454 of measurement device calibration, ser. # 78 dated 14/03/2012. It is valid to 14/03/2013
- /32/ Certificate # 065455 of measurement device calibration, ser. # 23



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dated 14/03/2012. It is valid to 14/03/2013

- /33/ Certificate # 065453 of measurement device calibration, ser.# 1201 dated 14/03/2012. It is valid to 14/03/2013
- /34/ Contract # 08/4/8/6 between NJSC "Chornomornaftogas" and SE
 "Crimea regional scientific and production centre of standardization, metrology, and certification" dated 03/01/2007
- /35/ Contract # 1221/3109 between NJSC "Chornomornaftogas" and SE
 "Crimea regional scientific and production centre of standardization, metrology, and certification" dated 23/10/2007
- /36/ Contract # 16/3597 between NJSC "Chornomornaftogas" and SE "Crimea regional scientific and production centre of standardization, metrology, and certification" dated 21/01/2008
- /37/ Contract # 125/35 between NJSC "Chornomornaftogas" and SE
 "Crimea regional scientific and production centre of standardization, metrology, and certification" dated 28/01/2009
- /38/ Contract # 1860/770 between NJSC "Chornomornaftogas" and SE
 "Crimea regional scientific and production centre of standardization, metrology, and certification" dated 16/07/2010
- /39/ Additional agreement # 1/505 dated 06/06/2011 to the contract dated 16/07/2010 # 1860/770
- /40/ Contract # 828/5196 between NJSC "Chornomornaftogas" and SE "Crimea regional scientific and production centre of standardization, metrology, and certification" dated 19/07/2011. Annex # 1 dated 19/07/2011 to the contract # 828/5196 List of metrological services. Annex # 2 dated 19/07/2011 to the contract # 828/5196 Classification of equipment
- /41/ Statement of acceptance transmitting of repaired and reconstructed units (pressure control unit УРД-Т 100/100 at gas distribution system)
- /42/ Statement of device transmitting for installation (pressure control unit УРД-T 50/80 at gas distribution system)
- /43/ Statement of acceptance transmitting of repaired and reconstructed units (replacement of pressure control unit УРД-Т 50/80 instead of unit РД-40 at gas distribution system)
- /44/ Statement # 7 of acceptance transmitting of repaired and reconstructed units (installation of tap valve type Ду500) dated 30/12/2008
- /45/ Statement # 6 of acceptance transmitting of repaired and reconstructed units (installation of the tap type Ду500) dated 30/12/2008
- /46/ Statement dated 30/12/2008 of device transmitting for installation (the tap type KШ-500, the tap type Ду-150)
- /47/ Statement of commissioning of degassing well # 36 dated 11/06/2008
- /48/ Statement of commissioning of degassing well # 37 dated 11/04/2008
- /49/ Statement of commissioning of degassing well #38 dated





03/12/2008

- /50/ Statement # 12 of acceptance transmitting of repaired and reconstructed units (the tap installation and installation of the constructed part of gas pipeline to the gas distribution system) dated 16/07/2009
- /51/ Statement of commissioning of degassing well # 34 dated 11/05/2009
- /52/ Statement of commissioning of degassing well # 39 dated 15/06/2010
- /53/ Statement # 09/11 of device transmitting for installation dated 14/09/2011
- /54/ Statement of replacement of degassing well equipment (degassing well # 73) dated 17/02/2011
- /55/ Statement of replacement of degassing well equipment (degassing well # 75) dated 31/05/2011
- /56/ Statement of replacement of degassing well equipment (degassing well # 10) dated 30/06/2011
- /57/ Statement of device transmitting for installation dated 30/08/2011 (presser control device РД50, tap Ду50, tap КШ ДК80)
- /58/ Statement of acceptance transmitting of repaired and reconstructed units dated 30/08/2011 (reconstruction of reduction unit of gas distribution system)
- /59/ Statement of acceptance transmitting of repaired and reconstructed units dated 31/10/2011 (repairs of reduction unit of gas distribution system)
- /60/ Statement of replacement of degassing well equipment (degassing well # 82) in 2011
- /61/ Statement of replacement of degassing well equipment (degassing well # 12)
- /62/ Statement # 21 of replacement of degassing well equipment (degassing well # 13) dated 27/02/2012
- /63/ Statement of device transmitting for installation in 2012 (gas pressure control device, tap)
- /64/ Statement of acceptance transmitting of repaired and reconstructed units (pressure control device УРД-Т 100/100, tap)
- /65/ Passport of thermal and chemical gas indicator, ser. # 106. Certificate of acceptance and state calibration dated November 2002
- /66/ Passport of measurement device of gas concentration in sampling unit, ser. # 06. Date of state calibration is 24/05/2002
- /67/ Registration card of degassing well interferometer type ШИ-11, ser. # 300007
- /68/ Registration card of gas indication, ser. # 13646
- /69/ Registration card of gas indication, ser. # 1120
- /70/ Registration card of gas indication, ser. # 962 dated 20/05/2004
- /71/ Passport of gas analyzer type Φ CT-03, ser. # 1715. date of state calibration is 03/03/2005



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- /72/ Passport of steam and gas indicator (thermal and chemical unit type ЩИТ-2), ser. # 26. State calibration dated April 2005
- /73/ Passport of methane meter MC-1, ser. # 43. Date of calibration is 28/03/2003
- /74/ Report of air protection for 2006. Form # 2-TP (the air)
- /75/ Report of air protection for 2007. Form # 2-TP (the air)
- /76/ Report of air protection for 2008. Form # 2-TP (the air)
- /77/ Report of air protection for 2009. Form # 2-TP (the air)
- /78/ Report of air protection for 2010. Form # 2-TP (the air)
- /79/ Report of air protection for 2011. Form # 2-TP (the air)
- /80/ Report of air protection for the first quarter 2012. Form # 2-TP (the air)
- /81/ Permit # 122700000/19 on pollutant emission into the air by stationary sources dated 01/06/2007. It is valid for 5 years, from 01/06/2007 to 01/06/2012 (ejection station of North Bulganatsk gas disposal of NJSC "Chornomornaftogas")
- /82/ Permit # 111200000/20 on pollutant emission into the air by stationary sources dated 01/06/2007. It is valid for 5 years, from 01/06/2007 to 01/06/2012 (complex gas preparation unit "Bagerovo" and East Kazantyp gas disposal)
- /83/ Permit # 122700000/61 on pollutant emission into the air by stationary sources dated 10/12/2007. It is valid for 5 years, from 10/12/2007 to 31/12/2012 (East Crimea oil production unit of NJSC "Chornomornaftogas")
- /84/ Permit # 110100000/106 on pollutant emission into the air by stationary sources dated 25/02/2008. It is valid from 25/02/2008 to 25/02/2013
- /85/ Permit # 111900000/77 on pollutant emission into the air by stationary sources dated 18/04/2008. It is valid for 5 years, from 18/04/2008 to 30/06/2013
- /86/ Permit # 1101166000/33 on pollutant emission into the air by stationary sources dated 21/04/2008. It is valid for 5 years, from 21/04/2008 to 30/06/2013
- /87/ Permit # 125600000/17 on pollutant emission into the air by stationary sources dated 05/05/2008. It is valid for 5 years, from 05/05/2008 to 05/05/2013
- /88/ Permit # 110600000/36 on pollutant emission into the air by stationary sources dated 25/06/2008. It is valid for 5 years, from 25/06/2008 to 30/06/2013
- /89/ Permit # 110100000/222 on pollutant emission into the air by stationary sources dated 26/12/2008. It is valid for 5 years, from 26/12/2008 to 31/12/2013
- /90/ Permit # 125600000/34 on pollutant emission into the air by stationary sources dated 30/12/2008. It is valid for 5 years, from 30/12/2008 to 30/12/2013
- /91/ Permit # 125600000/42 on pollutant emission into the air by stationary sources dated 13/04/2010. It is valid for 5 years, from



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13/04/2010 to 30/06/2015 (tap unit,Ocheretai bay of NJSC "Chornomornaftogas")

- /92/ Permit # 125600000/43 on pollutant emission into the air by stationary sources dated 13/04/2010. It is valid for 5 years, from 13/04/2010 to 30/06/2015 (complex gas preparation unit Glebovka of NJSC "Chornomornaftogas")
- /93/ Permit # 125600000/44 on pollutant emission into the air by stationary sources dated 13/04/2010. It is valid for 5 years, from 13/04/2010 to 30/06/2015 (management unit of underground gas storage of NJSC "Chornomornaftogas")
- /94/ Order # 246-πp of approval of the period of monitoring documents storage dated 23/05/2012

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/ Rostyslav Ilnytskyi First Deputy Chairman of the Board, Chief Engineer;
- /2/ Volodymyr lershov Head of preparation production management;
- /3/ Oleg Gryn Head of production management;
- /4/ Denys Shulga Head of management of environmental safety and civil rights protection;
- /5/ Oleksandr Sigitov Chief seviceman;
- /6/ Kostiantyn Sereda Head of production and technical management department;
- /7/ Ivan Deinega Chief metrologist of metrology service;
- /8/ Leile Kemalova Deputy Head of production and technical management department;
- /9/ Grygorii Gorobets Chief engineer of gas production management;
- /10/ Vasyl Kuchak Chief engineer of underground gas storage management;
- /11/ Oleg Ochkan Head of production and technical service of pipeline management;
- /12/ Volodymyr Rybalkin Deputy head of Marine Stationary Platform 17.
- /13/ Dmytro Palamarchuk consultant of VEMA S.A.



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APPENDIX A: PROJECT VERIFICATION PROTOCOL

Table 1	Check list for verificat	on, according to the	JOINT IMPLEMEN	TATION DETERMINATION AND
VERIFICA	TION MANUAL (Version	2)		

DVM Paragr aph	Check Item	Initial finding	Draft Conclusi on	Final Conclusi on
Project a	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?	written project approvals. Namely, the State Environmental Investment Agency of Ukraine has issued the Letter of Approval # 1271/23/7 dated 17/05/2012 of the JI project "Methane leaks reduction and	CAR01	ОК
91	Are all the written project	All LoAs of regarded JI project are	OK	OK



VERIFICATION REPORT				
DVM Paragr aph	Check Item	Initial finding	Draft Conclusi on	Final Conclusi on
	approvals by Parties involved unconditional?	unconditional.		
Project i	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?	JI project is implemented in accordance with the PDD version 02 which has been deemed final.	CAR02	ОК
		Clarification Request 01 (CL01). Please	CL01	OK



VERIFICATI	ON REPORT			BUREAU VERITAS
DVM Paragr aph	Check Item	Initial finding	Draft Conclusi on	Final Conclusi on
		clarify a reason of difference of emission reductions achieved for the monitoring period 01/01/2008-31/12/2011 and stated in the MR and the value of emission reductions estimated in the PDD version 02 for the same period.		
93	What is the status of operation of the project during the monitoring period?	Monitoring report indicated the current status of the project activity implementation. Based on provided materials, there is known that all project equipments were operational in the reporting period and generating emission reductions. Also, refer to section 92 above.	ОК	ОК
Complia	nce 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?	"NJSC "Chornomornaftogaz" is strictly following the monitoring plan included in the PDD version 02 dated 05/04/2012 regarding which the determination has been deemed final. Data used for calculation of emissions reduction based on information that confirmed by PJSC "NJSC "Chornomornaftogaz" documents.	OK	ОК
95 (a)	For calculating the emission	According to reviewed information, there	OK	OK



VERIFICATION REPORT

DVM Paragr aph	Check Item	Initial finding	Draft Conclusi on	Final Conclusi on
	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?	global warming potential of CH_4 , gas pressure, gas temperature, concentration of methane in the sample, number of operation hours of equipment where leak was detected during the year, uncertainty range for the flow rate measurement method applied to physical leak, etc. and		
95 (b)	Are data sources used for calculating emission reductions or enhancements of net removals clearly identified, reliable and transparent?	Data sources used for calculating emission reductions are clearly identified, reliable and transparent. On site responsible	CAR03	ОК



DVM Paragr aph	Check Item	Initial finding	Draft Conclusi on	Final Conclusi on	
		Please provide more information about JI working team of PJSC "NJSC "Chornomornaftogaz". <u>Corrective Action Request 04 (CAR04)</u> . Please provide special reporting forms with initial monitoring data that are kept during sampling.	CAR04	ОК	
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?	No CO ₂ emission factor is used for emission reduction calculation of JI project "Methane leaks reduction and implementation of energy efficiency measures at technological equipment of Public Joint Stock Company "National Joint Stock Company	OK	ОК	
95 (d)	Is the calculation of emission reductions or enhancements of net removals based on conservative assumptions and the most plausible scenarios in a transparent manner?	based on conservative assumptions and the most plausible scenarios in a		ОК	



VERIFICATIO	ON REPORT			B U R E A U VERITAS
DVM Paragr aph	Check Item	Initial finding	Draft Conclusi on	Final Conclusi on
		for baseline setting and monitoring. As a result of documents revision, all data connected with estimation of emission reduction are consistent through the Monitoring report and excel spreadsheets with calculation. <u>Corrective Action Request 05 (CAR05)</u> . Please check and correct the formula of project emissions calculation according to reqistered PDD.	CAR05	ОК
	le 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?	Not applicable	ОК	ОК
	le to bundled JI SSC projects onl			
97 (a)	Has the composition of the bundle not changed from that is stated in F-JI-SSCBUNDLE?	Not applicable	OK	ОК



VERIFICATION REPORT					
DVM Paragr aph	Check Item	Initial finding	Draft Conclusi on	Final Conclusi on	
97 (b)	If the determination was conducted on the basis of an overall monitoring plan, have the project participants submitted a common monitoring report?	Not applicable	ОК	ОК	
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?	Not applicable	ОК	ОК	
	of monitoring plan				
	ole only if monitoring plan is revis		N/A		
99 (a)	Did the project participants provide an appropriate justification for the proposed revision?	period 01/01/2008-31/12/2011 of regarded JI project.		N/A	
99 (b)	Does the proposed revision improve the accuracy and/or applicability of information collected compared to the	Not applicable	N/A	N/A	



VERIFICATI	ON REPORT			B U R E A U VERITAS
DVM Paragr aph	Check Item	Initial finding	Draft Conclusi on	Final Conclusi on
	original monitoring plan without changing conformity with the relevant rules and regulations for the establishment of monitoring plans?			
Data ma 101 (a)	nagement Is the implementation of data	Procedures of data collection are	ОК	ОК
	collection procedures in accordance with the monitoring plan, including the quality control and quality assurance procedures?	implemented in compliance with the approved monitoring plan. Measuring equipment, such as gas analysers, gas indicators, etc. is used for monitoring. Monitoring data of the project is monitored in compliance with scheduled frequency approved in the developed monitoring plan and monitoring procedure. The quality control and quality assurance procedures realised due to performing of additional internal maintenance and checking measures, participation of third parties, and carrying out of troubleshooting procedures.		
101 (b)	Is the function of the monitoring equipment, including its calibration status, is in order?	All project equipments were operating within the considered monitoring period. As a fact, the monitoring equipment has calibration. It is calibrated with periodic frequency (passport states the calibration		ОК



VERIFICATION REPORT

DVM Paragr aph	Check Item	Initial finding	Draft Conclusi on	Final Conclusi on
		frequency for every device) according to the national regulations. During site visit verification team received and reviewed passports and certificates on calibration of all measurement equipment that confirm the fact stated above. Detailed information about the equipment accuracy, calibration dates of the measurement devices, etc. is stated in the supporting document 2 to the Monitoring Report for the monitoring period 01/01/2008-31/12/2011. Corrective Action Request 06 (CAR06).	CAR06	ОК
		Please, provide documented evidence of calibration status of the equipment type EX-TEC SR5. <u>Clarification Request 02 (CL02)</u> . Please	CL02	ок
		clarify origin of the standard EN 50054/57.	OLOZ	ÖK
101 (c)	Are the evidence and records used for the monitoring maintained in a traceable manner?		ОК	ОК
101 (d)	Is the data collection and management system for the project in accordance with the monitoring plan?	The data collection and management system for the project is in accordance with the approved monitoring plan. Implementation of monitoring system was		ОК

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VERITAS

DVM **Check Item** Initial finding Final Draft Conclusi Conclusi Paragr aph on on checked during the site visit, and it was concluded that monitoring system is completely in accordance with the monitoring plan. This fact is also confirmed by the documented evidences of Public Joint Stock Company "National Joint Stock Company "Chornomornaftogaz". Corrective Action Request 07 (CAR07). CAR07 OK Please provide documented evidence which confirms the data storage during the period as required by UNFCCC JI regulations. Verification regarding programs of activities (additional elements for assessment) 102 Is any JPA that has not been Not applicable OK OK added to the JI PoA not verified? 103 Is the verification based on the Not applicable OK OK monitoring reports of all JPAs to be verified? 103 Does the verification ensure the Not applicable OK OK accuracy and conservativeness of the emission reductions or enhancements of removals generated by each JPA? Does the monitoring period not Not applicable 104 OK OK overlap with previous monitoring



VERIFICATI	ON REPORT			B U R E A U VERITAS
DVM Paragr aph	Check Item	Initial finding	Draft Conclusi on	Final Conclusi on
	periods?			
105	If the AIE learns of an erroneously included JPA, has the AIE informed the JISC of its findings in writing?	Not applicable	ОК	ОК
	le to sample-based approach onl		_	
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;	Not applicable	OK	ОК



VERIFICATI	ON REPORT			B U R E A U V E R I T A S
DVM Paragr aph	Check Item	Initial finding	Draft Conclusi on	Final Conclusi on
	 The geographical location of each JPA; The amounts of expected emission reductions of the JPAs being verified; The number of JPAs for which emission reductions are being verified; The length of monitoring periods of the JPAs being verified; and The samples selected for prior verifications, if any? 			
107	Is the sampling plan ready for publication through the secretariat along with the verification report and supporting documentation?	Not applicable	ОК	ОК
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,	Not applicable	ОК	ОК



VERIFICATI	ON REPORT	B U F V E R		
DVM Paragr aph	Check Item	Initial finding	Draft Conclusi on	Final Conclusi on
	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)	Not applicable	ОК	ОК
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?	Not applicable	ОК	ОК



VERIFICATION REPORT

Table 2 Resolution of Corrective Action and Clarification Requests

Draft report clarifications and corrective action requests by verification team	Ref. to checklist question in table 1	Summary of project participant response	Verification team conclusion
Corrective Action Request 01 (CAR01). Please in the monitoring report provide detailed information about LoAs of JI project issued by the Parties involved.	Table 1, 90	Information with LoAs number and date of issuance is described in the monitoring report section A.2.	the amendments that were
CorrectiveActionRequest02(CAR02)PleaseindicateinthemonitoringreportthescopeofconsideredJIproject.of	Table 1, 92	Scope (1) and scope (10) relate to JI project. The information provided according to the registered PDD.	Scopes of the project were indicated in the monitoring report. Issue is closed.
CorrectiveActionRequest03(CAR03)PleaseprovidemoreinformationaboutJIworkingteamPJSC"NJSC"Chornomornaftogaz".	Table 1, 95 (b)	Situation about JI working team was described in the monitoring report.	Issue is closed.
<u>Corrective Action Request 04</u> (CAR04). Please provide special reporting forms with initial monitoring data that are kept during sampling.	Table 1, 95 (b)	Sampling forms were provided to the verification team.	According to the revision of provided documented evidences, issue is closed.



VERIFICATION REPORT			
Draft report clarifications and corrective action requests by verification team	Ref. to checklist question in table 1	Summary of project participant response	Verification team conclusion
<u>Corrective Action Request 05</u> (CAR05). Please check and correct the formula of project emissions calculation according to registered PDD.	Table 1, 95 (d)	Formulae 1 used for project emissions calculation was corrected in compliance to the PDD.	Issue is closed.
CorrectiveActionRequest06(CAR06).Please,providedocumentedevidenceofcalibrationstatusoftheequipmenttypeSR5.	Table 1, 101 (b)	The passport / certificate of device type EX-TEC SR5 was provided for analysis.	The document was provided and found in order. Issue is closed.
Corrective Action Request 07 (CAR07). Please provide documented evidence which confirms the data storage during the period as required by UNFCCC JI regulations.	Table 1, 101 (d)	Order #246-np issued by the project participants was provided to the verification team.	Issue is closed because the internal document of PJSC "NJSC "Chornomornaftogas" that required data storage was provided.
<u>Clarification Request 01 (CL01)</u> . Please clarify a reason of difference of emission reductions achieved for the monitoring period 01/01/2008- 31/12/2011 and stated in the MR and the value of emission reductions estimated in the PDD version 02 for	Table 1, 92	Estimation of emission reductions stated in the registered PDD was performed based on historical and forecasted data. Emission reductions calculation provided in the monitoring report was	According to clarification, issue is closed.



VERIFICATION REPORT				
Draft report clarifications and corrective action requests by verification team	Ref. to checklist question in table 1	Summary of project participant response	Verification team conclusion	
the same period.		done using actual monitoring data for the monitoring period 01/01/2008-31/12/2011. Currently, amount of emission reduction from the monitoring report is slightly lower than it was estimated in the final PDD. Please refer for details to MR and Supporting document 1.		
Clarification Request 02 (CL02). Please clarify origin of the standard EN 50054/57.	Table 1, 101 (b)	The standard EN 50054/57 is international standard. For details see the MR version 02.	,	