

VERIFICATION REPORT RME "DONETSKTEPLOCOMUNENERGO"

VERIFICATION OF THE REHABILITATION OF THE DISTRICT HEATING SYSTEMS IN MAKIIVKA, MARIUPOL, ARTEMIVSK CITIES OF DONETSK REGION 3RD PERIODIC (01 JANUARY 2009 – 31 DECEMBER 2009)

REPORT NO. UKRAINE-VER/0295/2011/2 REVISION NO. 01

BUREAU VERITAS CERTIFICATION



29/09/2011		Bureau Ve	al unit: eritas Ce	rtification Holding SAS	
Client: RME "Donetskteplocom	unenergo"	Client ref.: Mr. Vasyl '	Vorotynt	sev	
Summary: Bureau Veritas Certific Heating Systems in "Donetskteplocomunent and applying JI specifi provide for consistent p Kyoto Protocol, the JI r well as the host country	ation has r Makiivka, ergo" locate c approach project ope ules and m c criteria.	nade 3 rd periodic v Mariupol, Artem ed in the Makiivka, ı, on the basis of rations, monitoring odalities and the su	erification nivsk C Mariup UNFCC and rep ubseque	on of the JI project "Re ities of Donetsk Re ol, Artemivsk Cities of C criteria for the JI, as porting. UNFCCC criteria nt decisions by the JI S	habilitation of the District gion" project of RME Donetsk Region, Ukraine well as criteria given to a refer to Article 6 of the upervisory Committee, as
The verification scope Accredited Entity of th consisted of the followi plan; ii) follow-up interv the final verification rep Opinion, was conducted	is defined e monitore ng three ph iews with p ort and opi d using Bur	d as a periodic ir d reductions in G nases: i) desk revie project stakeholders inion. The overall v eau Veritas Certific	HG em GHG em W of the Gillion internation	ent review and ex po issions during defined project design and the olution of outstanding is n, from Contract Review ernal procedures.	est determination by the verification period, and baseline and monitoring sues and the issuance of w to Verification Report &
The first output of the Forward Actions Reque	verificatior sts (CR, C,	n process is a list AR and FAR), prese	of Clarit ented in	fication Requests, Corr Appendix A.	ective Actions Requests,
In summary, Bureau Ve approved project desig runs reliably and is ca generate GHG emission errors, omissions, or mi	ritas Certif n docume librated ap n reduction sstatement	ication confirms tha nts. Installed equip propriately. The m s. The GHG emissi ts, and the ERUs is:	It the pro ment be onitoring on reduce sued tot	oject is implemented as eing essential for gener system is in place an ction is calculated accur alize:	planned and described in rating emission reduction d the project is ready to ately and without material
95 429 tons of CO ₂ equ	ivalents for	the monitoring peri	iod 01/0	1/2009 – 31/12/2009.	
Our opinion relates to related to the approved	the project project bas	t's GHG emissions seline and monitorir	s and re ig, and i	esulting GHG emission ts associated document	reductions reported and s.
Report No.: UKRAINE-ver/0295/201	Subjec	t Group:]	а Т	
Project title: "Rehabilitation of the Makiivka, Mariupol, A Region"	District He rtemivsk (eating Systems in Cities of Donetsk	-		
Work carried out by:		ton	1		
Rostislav Topchiy – Tea	am Leader,	Lead Verifier			
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Work reviewed by: Ivan Sokolov - Interna	Technical F	Reviewer		No distribution without Client or responsible o	permission from the rganizational unit
Work approved by: Flavio Gomes - Operati	Bureau onal Manac	Ter Doc 40	uon	Limited distribution	
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1 INTRODUCTION

RME "Donetskteplocomunenergo" has commissioned Bureau Veritas Certification to verify the emissions reductions of its JI project "Rehabilitation of the District Heating Systems in Makiivka, Mariupol, Artemivsk Cities of Donetsk Region" (hereafter called "the project") at Makiivka, Mariupol, Artemivsk Cities of 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.

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 reports 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:

Rostislav Topchiy

Bureau Veritas Certification, Team Leader, Climate Change Lead Verifier

Vitaliy Minyaylo

Bureau Veritas Certification Team Member, Climate Change Verifier



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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 verification protocol is enclosed in Appendix A to this report.

2.1 Review of Documents

The Monitoring report (MR) submitted by RME "Donetskteplocomunenergo" and additional background documents related to the project design and baseline, i.e. country Law, Project Design Document (PDD), developed JI specific approach 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:

- Annual Monitoring report for the period 01/01/2009 31/12/2009 version 01 dated 25/07/2011 and Annual Monitoring report for the period 01/01/2009 31/12/2009 version 02 dated 28/09/2011;
- project as described in the determined PDD.

2.2 Follow-up Interviews

On 16-17/08/2011 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 RME



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"Donetskteplocomunenergo", ME "Makiivteplomerezha", MCE "Mariupolteplomerezha", "Artemivsk-Energy", Ltd and Institute of

Engineering Ecology were interviewed (see References). The main topics of the interviews are summarized in Table 1.

Interviewed	Interview topics			
organization				
RME "Donetskteplo- comunenergo", ME "Makiivteplo- merezha", MCE "Mariupolteplo- merezha", "Artemivsk- Energy", Ltd	 > 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 			

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 reports 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;



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(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 Requests, Corrective Action Requests 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 08 Corrective Action Requests and 04 Clarification Requests.

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

3.1 Remaining issues and FARs from previous verifications

Remaining issues and FARs from previous verification are absent. Not applicable.

3.2 Project approval by Parties involved (90-91)

Written project approval by the host Party (Ukraine) was received at the determination stage.

Written project approval by 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.

The abovementioned written approvals are unconditional.

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

Implementation of boiler houses equipment rehabilitation and network rehabilitation are realized mainly according to project plan with some deviations from time-table.

Reconstruction of boiler-houses sometimes has insignificant deviations from the project particularly in changes of installed boilers capacity. It



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was dictated by changes in heat energy demand. In several cases replacement of different (from planned before) diameters of network pipes takes place.

Table of implemented energy saving measures is presented below.

Implemented energy saving	Volume of p	erformed wor	ks (number
measures	of boilers,	length of	f network
	replacement,	etc.)	
	2006-2008	2009	Total
ME "Makiiy	vteplomerezha	"	1
Boilers replacement			
Super Rac 2330	5		5
KSVa-2	3		3
KSVa-0,63	2		2
KSVa -1,0	3		3
Kolvi-300	2		2
BGV-50E	12		12
Rac 1060	3		3
Sunier duval	3		3
REX-200	2		2
REX-100	4	3	7
Modul Bernard 120	10		10
Super Rac 465	2		2
Super Rac 2100	2		2
Super Rac 2910	3		3
Super Rac 345	2	2	4
KVT - 1	2	2	4
Total	60	7	67
Rehabilitation of network, m	6700	0	6700
Switching of boiler-houses' load			
to the more effective including	6	1	7
the newly built ones			
MCE "Mariup	oolteplomerezi	na"	
Boilers replacement			
PTVM-30	2		2
PTVM-50	2	1	3
TVG-8M	5		5
E-1-09	1		1
KVG-6,5	4		4
VPR-500	1		1



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NIISTU-5M	2		2
KVGM -50	1		1
Total	18	1	19
Replacement of boiler burners			
SNG-33	81		81
MDGG 150	2		2
Total	83		83
Rehabilitation of network, m	58854	33419	92273
Replacement of pumps	6		6
Switching of boiler-houses' load to the more effective ones	3		3
Replacement of heat exchangers	2		2
Reconstruction of boilers	6		6
Chemical flushing of boilers	0	9	9
Frequency controllers installation	0	81	81
Implementation of heat utilizers	0	3	3
"Artemivsl	k-Energy", Ltd		
Boilers replacement			
KVG-0,63	6		6
KV-GM-1,0	4		4
KV-GM-1,6	3		3
Viessmann		2	2
Riello		2	2
Total	13	4	17
Rehabilitation of network, m	3555	1137	4692
Frequency controllers installation	0	5	5
Replacement of pumps	12	10	22
Switching of boiler-houses' load to the more effective ones	0	1	1

The identified areas of concern as to Project implementation, project participants response and BV Certification's conclusion are described in Appendix A Table 2 (refer to CAR 01, CAR 02, CAR 03, CAR 04, CL 01).

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

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

For calculating the emission reductions key factors, such as natural gas consumption at boiler houses, coal consumption at boiler houses, average



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annual net calorific value of natural gas average annual net calorific value of coal, average outside temperature during the heating period, average inside temperature during the heating period, number of customers of the hot water supply service, heated area (total), average heat transfer factor of heated buildings in the base year, heated area of buildings (previously existed in the base year) with the renewed (improved) thermal insulation in the reported year, heated area of newly connected buildings (assumed with the new (improved) thermal insulation) in the reported year, heat transfer factor of buildings with new thermal insulation, heating period duration, duration of period of hot water supply service, maximum connected load to a boiler-house, that is required for heating, connected load to a boiler-house, that is required for hot water supply service, standard specific discharge of hot water per personal account, natural gas carbon emission factor, coal carbon emission factor, reducing electricity consumption carbon emission factor, electricity consumption, fuel consumption by the cogeneration units, influencing the baseline emissions and the activity level of the project and the emissions due to the JI project 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 Boilerhouse records, Statistics of ME "Makiivteplomerezha", MCE "Mariupolteplomerezha", "Artemivsk-Energy", Ltd., IPCC Guidelines for National Greenhouse Inventories are clearly identified, reliable and transparent.

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

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

The monitoring equipment used for baseline and project emission calculation is present in the Annex 2 of Monitoring Reports.

The identified areas of concern as to Compliance with monitoring plan, project participants response and BV Certification's conclusion are described in Appendix A Table 2 (refer to CAR 05, CAR 06, CAR 07, CAR 08).

3.5 Revision of monitoring plan (99-100)

Not applicable for this verification process.



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3.6 Data management (101)

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

Registration of Natural gas consumption at boiler houses of district heating enterprises that implement the project is carried out by the following scheme:

1. Natural gas consumption is measured by gas flow meter, installed at a boiler-house. All boiler-houses are equipped with gas flow meters.

2. The majority of boiler-houses are equipped with automatic correctors for temperature and pressure. Gas consumption is registered automatically. Every day operator of a boiler house makes registration of daily gas consumption in the special paper journal "Journal of registration of boiler-house's operation parameters".

3. At the boiler-houses that are not equipped with gas volume correctors, operator of a boiler house every 2 hours registers parameters of natural gas (temperature and pressure) in the paper journal "Journal of registration of boiler-house's operation parameters". These parameters are used to bring gas consumption to standard conditions.

4. Every day operators report values of gas consumption by phone to Production-Technical Department (PTD) of ME "Makiivteplomerezha", MCE "Mariupolteplomerezha" and "Artemivsk-Energy", Ltd., correspondingly, where they are storing and used for payments to gas suppliers.

5. Every month the account centers transfer data to gas suppliers.

During site visit, all passports of measurement equipments that used in the JI project were provided for revision. Thus, 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 calculation of emission reductions is based on conservative assumptions and the most plausible scenarios in a transparent manner.

Data, required for emission reductions calculation and verification, are to be kept for two years after the last transfer of ERUs for the project in accordance with Order dated 04.07.2011 "On creation of the operation team and period of storage of documents II project".



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The identified areas of concern as to Data management, project participants response and BV Certification's conclusion are described in Appendix A Table 2 (refer to CL 02, CL 03, CL 04).

3.7 Verification regarding programmes of activities (102-110)

Not applicable.

4 VERIFICATION OPINION

Bureau Veritas Certification has performed the initial and periodic verification of the JI project "Rehabilitation of the District Heating Systems in Makiivka, Mariupol, Artemivsk Cities of Donetsk Region" located in the Makiivka, Mariupol, Artemivsk Cities of Donetsk Region, Ukraine, which applies JI specific approach. The verification was performed on the basis of UNFCCC criteria and host country criteria and also on the criteria given to provide for consistent project operations, monitoring and reporting.

The verification consisted of the following three phases: i) desk review of the 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 RME "Donetskteplocomunenergo" 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 04. 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 reports version 02 for the reporting periods 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





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project baseline and monitoring, and its associated documents. Based on the information we have seen and evaluated, we confirm, with a reasonable level of assurance, the following statement:

Reporting period from 01/01/2009	to 31/12/20	09
Baseline emissions	:683 758	t CO ₂ equivalents
Project emissions	:588 329	t CO ₂ equivalents
Leakages	:0	t CO ₂ equivalents
Emission reductions	:95 429	t CO2 equivalents



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5 REFERENCES

Category 1 Documents:

Documents provided by RME "Donetskteplocomunenergo" that relate directly to the GHG components of the project.

- /1/ PDD of the JI project "Rehabilitation of the District Heating Systems in Makiivka, Mariupol, Artemivsk Cities of Donetsk Region" version 04 dated 02/08/2011
- /2/ Monitoring report for the period 01/01/2009 31/12/2009 of JI project "Rehabilitation of the District Heating Systems in Makiivka, Mariupol, Artemivsk Cities of Donetsk Region" version 01 dated 25/07/2011
- /3/ Monitoring report for the period 01/01/2009 31/12/2009 of JI project "Rehabilitation of the District Heating Systems in Makiivka, Mariupol, Artemivsk Cities of Donetsk Region" version 02 dated 28/09/2011
- /4/ Letter of Approval from State Environmental Investment Agency of Ukraine № 2811/23/7 dated 28/09/2011
- /5/ Letter of Approval from Ministry of Economic Affairs of Netherlands 2011JI33 dated 14 September 2011
- /6/ Determination report №UKRAINE-det/0294/2011 of the JI project "Rehabilitation of the District Heating Systems in Makiivka, Mariupol, Artemivsk Cities of Donetsk Region" dated 03/08/2011

Category 2 Documents:

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

- /1/ Qualification certificate of PE Umantsev A.P. №ВЛ-485 applicable to 09/08/2013
- /2/ Passport of physic-chemical parameters of natural gas. January 2009.
- /3/ Passport of physic-chemical parameters of natural gas. February 2009.



- /4/ Passport of physic-chemical parameters of natural gas. March 2009.
- /5/ Passport of physic-chemical parameters of natural gas. April 2009.
- /6/ Passport of physic-chemical parameters of natural gas. May 2009.
- /7/ Passport of physic-chemical parameters of natural gas. June 2009.
- /8/ Passport of physic-chemical parameters of natural gas. July 2009.
- /9/ Passport of physic-chemical parameters of natural gas. August 2009.
- /10/ Passport of physic-chemical parameters of natural gas. September 2009.
- /11/ Passport of physic-chemical parameters of natural gas. October 2009.
- /12/ Passport of physic-chemical parameters of natural gas. November 2009.
- /13/ Passport of physic-chemical parameters of natural gas. December 2009.
- /14/ MCE "Mariupolteplomerezha" Register of gas for January 2009.
- /15/ MCE "Mariupolteplomerezha" Register of gas for February 2009.
- /16/ MCE "Mariupolteplomerezha" Register of gas for March 2009.
- /17/ MCE "Mariupolteplomerezha" Register of gas for April 2009.
- /18/ MCE "Mariupolteplomerezha" Register of gas for May 2009.
- /19/ MCE "Mariupolteplomerezha" Register of gas for June 2009.
- /20/ MCE "Mariupolteplomerezha" Register of gas for July 2009.
- /21/ MCE "Mariupolteplomerezha" Register of gas for August 2009.
- /22/ MCE "Mariupolteplomerezha" Register of gas for September 2009.
- /23/ MCE "Mariupolteplomerezha" Register of gas for October 2009.



- /24/ MCE "Mariupolteplomerezha" Register of gas for November 2009.
- /25/ MCE "Mariupolteplomerezha" Register of gas for December 2009.
- /26/ Letter 18-805/172s number of 15.12.2009 about the average air temperature in Mariupol
- /27/ Letter 18-804/171s number of 15.12.2009 about the average air temperature in Mariupol
- /28/ Letter 18-294/85s number of 13.05.2009 about the average air temperature in Mariupol
- /29/ Letter 18-225/74s number of 03.04.2009 about the average air temperature in Mariupol
- /30/ Letter 18-144/49s number of 03.03.2009 about the average air temperature in Mariupol
- /31/ Letter 18-89/27s number of 03.02.2009 about the average air temperature in Mariupol
- /32/ Letter 18-79/74s number of 03.04.2009 about the average air temperature in Mariupol
- /33/ Register of consumers MCE "Mariupolteplo-merezha" for 2005-2010.
- /34/ Register heated area of MCE "Mariupolteplo-merezha" for 2005-2010.
- /35/ Report on Air Protection Form 2-TP (air) in 2009.
- /36/ Boiler house shift technology logbook
- /37/ Repair Plan in 2009.
- /38/ Acceptance protocol amount of electricity used in January 2009.
- /39/ Acceptance protocol amount of electricity used in February 2009.
- /40/ Acceptance protocol amount of electricity used in March 2009.
- /41/ Acceptance protocol amount of electricity used in April 2009.
- /42/ Acceptance protocol amount of electricity used in May 2009.



- /43/ Acceptance protocol amount of electricity used in June 2009.
- /44/ Acceptance protocol amount of electricity used in July 2009.
- /45/ Acceptance protocol amount of electricity used in August 2009.
- /46/ Acceptance protocol amount of electricity used in September 2009.
- /47/ Acceptance protocol amount of electricity used in October 2009.
- /48/ Acceptance protocol amount of electricity used in November 2009.
- /49/ Acceptance protocol amount of electricity used in December 2009.
- /50/ Electricity consumption logbook
- /51/ Passport of electricity meter SL 7000 Power Smart № 53000612
- /52/ Photo electricity meter SL 7000 Smart № 53000612
- /53/ Passport of electricity meter SL 7000 Power Smart № 53000611
- /54/ Photo electricity meter SL 7000 Smart № 53000611
- /55/ Passport of electricity meter SL 7000 Power Smart № 53000609
- /56/ Photo electricity meter SL 7000 Smart № 53000609
- /57/ Passport of electricity meter SL 7000 Power Smart № 53000610
- /58/ Photo electricity meter SL 7000 Smart № 53000610
- /59/ Verification certificate of natural gas consumption meter POTOK-DN-03 № 03/39
- /60/ Photo POTOK-DN-03 № 03/39
- /61/ Passport Pressure sensor "Sapphire M" 5050 number 07124864
- /62/ Photo Sensor pressure "Sapphire M" 5050 number 07124864
- /63/ Verification certificate Thermoelement TSMU IP-205 number 2846
- /64/ Photo TSMU IP-205 number 2846
- /65/ Passport Metran-43 number 6799



- /66/ Photo Metran-43 number 6799
- /67/ Passport Metran-43 number 6621
- /68/ Photo Metran-43 number 6621
- /69/ Certificate № 60/14 of master Polyakova Y.A.
- /70/ Training logbook boiler house 279 kv
- /71/ Emergency Situations training logbook boiler house 279 kv
- /72/ Instruction for boiler house operators of boiler PTVM-30. Boiler house 279 kv
- /73/ Passport boiler PTVM-30m number 079637
- /74/ Photo PTVM-30m number 079637
- /75/ Accidents and emergencies logbook. Boilerhouse 138kv
- /76/ Emergency Situations training logbook boiler house 138kv
- /77/ Boiler house shift technology logbook boiler house138kv
- /78/ Verification certificate of natural gas consumption meter POTOK-DN-03 № 03/37
- /79/ Photo POTOK-DN-03 № 03/37
- /80/ Verification certificate Thermoelement TSMU IP-205 number 4088
- /81/ Photo TSMU IP-205 number 4088
- /82/ Passport Metran-43 number 138
- /83/ Photo Metran-43 number 6462
- /84/ Passport Metran-43 number 6764
- /85/ Photo Metran-43 number 6764
- /86/ Passport gas meter LG-K-200 number 7094
- /87/ Photo LG-K-200 number 7094



- /88/ Passport gas volume calculator "Universal-02» № 649
- /89/ Photo "Universal-02» № 649
- /90/ Passport Absolute pressure sensor number 01139416
- /91/ Photo absolute pressure sensor number 01139416
- /92/ Verification certificate The transducer measuring temperature PVT-01-1 number 507
- /93/ Photo PVT-01-1 number 507
- /94/ Passport electricity meter SL 7000 Power Smart № 53000606
- /95/ Photo electricity meter SL 7000 Smart № 53000606
- /96/ Passport electricity meter SL 7000 Power Smart № 53000604
- /97/ Photo electricity meter SL 7000 Smart № 53000604
- /98/ Certificate №90/7 of master Temerbek I.K.
- /99/ Training logbook boiler house boiler house 138kv
- /100/ Occupational Health Instructions number 43 for chemical water treatment boiler 138kv
- /101, Work instruction for operators of boilers PTVM-30m boilerhouse 138kv
- /102/ Passport boiler TVG-8M number 079446
- /103/ Photo TVG-8M number 079446
- /104/ Passport boiler PTVM-30m number 079622
- /105/ Photo PTVM-30m number 079622
- /106/ Passport boiler PTVM-30m number 079621
- /107/ Photo PTVM-30m number 079621
- /108/ Photo PTVM-30m number 079621
- /109/ Acceptance to the operation of frequency converters in boilerhouse 138 kv 2009.



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/110, Gas consumption logbook of boilerhouse "Kubanskaya"

- /111, Passport electricity meter SL 7000 Power Smart № 53000613
- /112/ Photo SL 7000 Smart № 53000613
- /113/ Passport electricity meter SL 7000 Power Smart № 53000618
- /114/ Photo SL 7000 Smart № 53000618
- /115, Passport gas consumption meter LG-K-200 number 7102
- /116/ Photo LG-K-200 number 7102
- /117, Passport gas meter number 9429
- /118/ Photo gas meter number 9429
- /119, Verification certificate work measuring instrument number 743. The transducer measuring temperature PVT-01-1 number 548
- /120/ Photo PVT-01-1 number 548
- /121, Passport Absolute pressure sensor number 01138992 boilerhouse "Kubanskaya"
- /122, Photo absolute pressure sensor number 01138992
- /123, Passport gas volume calculator "Universal-02» № 670
- /124/ Photo "Universal-02» № 670
- /125, Emergency Situations training logbook boiler house "Kubanskaya"
- /126, Training logbook boiler house "Kubanskaya"
- /127, Certificate number 183 / 6 of master Shukshina S.V.
- /128/ Acceptance for use in heating Latysheva str, 43 from boilerhouse "Kubanskaya" in 2009.
- /129, Acceptance to the operation of heating at Azov array, a boilerhouse "Kubanskaya" in 2009.
- /130/ Acceptance for use in heating Latysheva str.,35-37 from the boilerhouse "Kubanskaya" in 2009.



- /131, Schedule planned preventive maintenance on equipment of Primorskoye in 2009.
- /132/ Shift technology logbook. Boiler house ZHMR-3
- /133/ Passport boiler TVG-8 number 035715. Boiler house ZHMR-3
- /134, TVG-8 photo number 035715
- /135/ Passport boiler PTVM-30m number 079318. Boiler house ZHMR-3
- /136/ Photo PTVM-30m number 079318
- /137/ Passport boiler TVG-8 number 038716. Boiler house ZHMR-3
- /138/ TVG-8 photo number 038716
- /139/ Passport electricity meter SL 7000 Power Smart № 53001907
- /140/ Photo SL 7000 Smart № 53001907
- /141, Passport electricity meter SL 7000 Power Smart № 53001897
- /142/ Photo SL 7000 Smart № 53001897
- /143/ Verification certificate of natural gas consumption meter POTOK-DN-03 № 03/03
- /144/ Photo POTOK-DN-03 № 03/03
- /145/ Verification certificate. Thermoelement TSMU IP-205 number 1723
- /146/ Photo TSMU IP-205 number 1723
- /147/ Passport Metran-43 number 8325
- /148/ Photo Metran-43 number 8325
- /149/ Passport Metran-43 number 6936
- /150/ Photo Metran-43 number 6936
- /151, Passport Pressure sensor "Sapphire M" 5050 number 07123866
- /152, Photo "Sapphire M" 5050 number 07123866



- /153, Certificate number 82 / 1 of master Tsumbek E.L.
- /154, Training logbook.Boiler house ZHMR-3
- /155, Emergency Situations training logbook ZHMR-3
- /156/ Acceptance to the operation of frequency converters boilerhouse ZHMR-3 in 2009.
- /157, Acceptance to the operation of a heating Hmelnytskoho str, 12 from boilerhouse ZHMR-3 in 2009.
- /158, The power consumption of "Artemivsk-Energy" Ltd in 2009.
- /159/ Information about the number of consumers of hot water for "Artemivsk-Energy" Itd for 2009. (Boiler house number 7 Artema, 10)
- /160/ Register heated area of "Artemivsk-Energy" ltd for 2009.
- /161, Report on Air Protection Form 2-TP (air) in 2009. "Artemivsk-Energy" Itd
- /162/ Shift Logbook. Boiler house Artema, 10
- /163/ Consumption of fuel and energy resources logbook "Artemivsk-Energy" ltd.
- /164 Acceptance Certificate (internal displacement) of fixed assets number 41 from 26.02.2009. WILO Pump with motor number 104146
- /165/ Passport Water boiler KV-G-0,63-95 SN number 139
- /166/ Passport Water boiler KV-G-0,63-95 SN number 164
- /167/ Passport Water boiler KV-G-0,63-95 SN number 165
- /168/ Passport Water boiler KV-GM-1,6-95 SN № 012
- /169, Passport Water boiler KV-GM-1,25-95 SN № 071
- /170, Passport Water boiler KV-GM-1,25-95 SN № 070
- /171, Boiler KV-G-0,63 number 2 repair logbook
- /172, Passport gas meter LTK-100 number 5885



- /173, LTK-100 photo number 5885
- /174, Passport electricity meter Delta 8010 № 18156
- /175, Photo Delta 8010 № 18156
- /176/ Plan localization and liquidation of emergencies and accidents. Boiler house number 7
- /177, Journal of the training sessions. Boiler house number 7
- /178/ Work Instructions TB-124 for boiler operators such as KB-G-0,63
- /179, Certificate number 25 / 7 of boiler operator Volchkova I.S.
- /180, Certificate № 28/30 of boiler operator Rodnyana S.M.
- /181, Schedule planned preventive maintenance of equipment. Boiler house number 11.
- /182/ Regime charts of boiler number 2 KV-GM-1,6
- /183/ Regime charts of boiler number 1 KV-GM-1,25
- /184/ Regime charts of boiler number 3 KV-GM-1,25
- /185/ Acceptance Certificate (internal displacement) of fixed assets number 64 from 30.03.2009. WILO Pump with motor number 104153
- /186/ Technical report regime-type boilers up works KV-GM-1,25-95 CH boiler number 11, Artema, 65
- /187, Shift logbook of boiler house number 4
- /188/ Electricity consumption logbook
- /189/ Passport natural gas meter LG-K-150-1/30-0,63-1-Ex number 10540
- /190/ Photo LG-K-150-1/30-0,63-1-Ex number 10540
- /191/ Passport electricity meter Delta 8010 number 18372
- /192/ Photo Delta 8010 № 18372



- /193/ Boiler repairs logbook . Boiler house number 11
- /194/ Plan localization and liquidation of emergencies and accidents. Boiler house number 11
- /195/ Training sessions in Emergency Situations logbook. Boiler house number 11.
- /196/ Certificate № 27/14 of boiler operator Nogin V.M.
- /197, Certificate number 23 / 9 of boiler operator Ivanova E.S.
- /198, Certificate № 55/13 of master Minenko A.S.
- /199, Work instruction number 1 for boiler operators KVG-7,56
- /200/ Passport boiler VITOMAX 200-LW M62A004 №737329800104
- /201, Work instruction for operators of boiler type VITOMAX 200-LW M62A
- /202/ Passport natural gas meter LG-K-150-650-1,6-01-Ex number 6116
- /203/ Photo LG-K-150-650-1,6-01-Ex number 6116
- /204/ Passport electricity meter Delta 8010 number 18454
- /205/ Photo Delta 8010 № 18454
- /206/ Shift logbook boiler house number 3, Karpynskoho str., 10a
- /207, Regime charts of boiler number 2 VITOMAX 200-LW
- /208/ Photo. WILO Pump number 104153
- /209/ Photo. Kolmeks pump number 104127
- /210/ Photo. Boiler VIESSMANN VITOMAX 200-LW № 104229
- /211/ Photo. Boiler VIESSMANN VITOMAX 200-LW № 104230
- /212/ Photo. Gas volume corrector number B25 2876
- /213/ Photo. WILO Pump number 104153
- /214/ Photo. Gas volume corrector number B25 6793



- /215/ Photo. Gas meter GMS-G 160-80-1,0 № 490
- /216/ Photo. Kolvy-1300 boiler number 0430
- /217, Plan localization and liquidation of emergencies and accidents. ME "Makiivteplomerezha"
- /218, Regime charts boiler hospital № 7, Oborona str.
- /219/ Photo. Kolvy-1300 boiler number 0430
- /220/ Plan localization and liquidation of emergencies and accidents. ME "Makiyivteplomerezha"
- /221, Regime charts boiler hospital № 7, Oborona str.
- /222, Calculating caloric ratio of natural gas in 2009.
- /223, Calculating calorie of solid fuel in 2009.
- /224, Average air temperature in city Makyiyivka
- /225, Heating area ME "Makiivteplomerezha" in 2009.
- /226/ Report on Air Protection Form 2-TP (air) in 2009. ME "Makiivteplomerezha"
- /227/ Passport boiler Kolvi-1300 № 0431
- /228/ Photo Kolvi -1300 number 0431
- /229/ Passport boiler Kolvi-1300 № 0430
- /230/ Kolvi Photo-1300 number 0430
- /231/ Passport natural gas meter LG-K-Ex G160-80-1/20-1,6-1 № 4522
- /232/ Photo LG-K-Ex G160-80-1/20-1,6-1 № 4522
- /233, Passport gas volume calculator "Universal» № 2883
- /234/ Photo «Universal» № 2883
- /235/ Passport electricity meter EMS 134.10.1 № 228465
- /236/ Photo EMS 134.10.1 № 228465



- /237, Act of Readiness object to the operation. Construction of the gas boiler house "City Hospital № 7" in Makeevka. 2009.
- /238/ Passport rotary gas meter GMS-G40.40.1.0 № 039973
- /239/ Photo GMS-G40.40.1.0 № 039973
- /240/ Passport corrector B25 gas number 081 073
- /241, Photo B25 number 081 073
- /242, Work instruction. Water boilers Superac.
- /243, Passport rotary gas meter GMS-G160.80.1.0 № 059549.
- /244/ Photo GMS-G160.80.1.0 № 059549
- /245/ Passport corrector gas B25 № 02262
- /246, Photo B25 Photo № 02262
- /247, Passport electricity meter EMS 134.10.1 № 228070
- /248/ Photo EMS 134.10.1 № 228070
- /249, Certificate of master Yalovytskyy O.V.
- /250/ Certificate of master Makalysh A.O.
- /251, Schedule of emergency training ME "Makiivteplomerezha"
- /252, Emergency training logbook ME "Makiivteplomerezha"
- /253/ Calculating calorie solid fuel for the ME "Makiivteplomerezha" for 2009.
- /254/ The procedure of recalculation of hot water and central heating ME "Makiivteplomerezha"



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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/ Kucherenko V.M. Deputy General director on investments and strategic development, RME "Donetskteplocomunenergo"
- /2/ Pakhomova E.I. Leading engineer of the Prospective development department, RME "Donetskteplocomunenergo"
- /3/ Klimenko I.G. Acting director, chief electrician, MCE "Mariupolteplomerezha"
- /4/ Shamsheev I.O. Chief Engineer, MCE "Mariupolteplomerezha"
- /5/ Klochko O.O. head of the Production-Technical Department, MCE "Mariupolteplomerezha"
- /6/ Valanchius Albertas Director of "Artemivsk-Energy", Ltd.
- /7/ Kravtsova L.M. head of the Production-Technical Department, "Artemivsk-Energy", Ltd.
- /8/ Zaletov L.M. Chief Engineer, "Artemivsk-Energy", Ltd.
- /9/ Menchov E.M. Chief electrician, "Artemivsk-Energy", Ltd.
- /10/ Ryazantseva L.O. Director of ME "Makiivteplomerezha"
- /11/ Shevchenko O.E. Acting chief Engineer, ME "Makiivteplomerezha"
- /12/ Moiseyeva N.A. Acting Deputy Director of Production, ME "Makiivteplomerezha"
- /13/ Indenko V.M. Head of the Fuel and energy resources department, ME "Makiivteplomerezha"
- /14/ Panchenko L.I. Acting head of the Production-Technical Department, ME "Makiivteplomerezha"
- /15/ Ryazantseva N.P. senior engineer of exploitation service, ME "Makiivteplomerezha"



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APPENDIX A: COMPANY PROJECT VERIFICATION PROTOCOL

Table 1Check list for verification, according to the JOINT IMPLEMENTATION DETERMINATION AND
VERIFICATION MANUAL (Version 01)

DVM	Check Item	Initial finding	Draft	Final
Paragra			Conclusi	Conclusi
ph			on	on
Project a	pprovals 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?	DFP of the Netherlands have issued written project approval (LoA) when submitting the first verification report to the secretariat for publication in accordance with paragraph 38 of the JI guidelines.	ОК	ОК
91	Are all the written project approvals	Yes, all the written project approvals by	OK	OK
	by Parties involved unconditional?	Parties involved are unconditional.		
Project in	nplementation			
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?	Implementation of the project activity was realized according to the project implementation schedule described in the project design document. CAR 01. The project start date is listed incorrectly in sections A.4, A.6 MR. According to the PDD the beginning of the project is on 01/10/2006. Make the appropriate corrections. CL 01. Please explain the difference between	CAR 01 CL 01	ОК



DVM Paragra ph	Check Item	Initial finding	Draft Conclusi on	Final Conclusi on
		the estimated reduction are indicated in the PDD and actual values are indicated in the MR (Sections A.3 and D.3).		
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. CAR 02. Please specify which sectoral scope project applies to. CAR 03. Table 1 and tables of section D.3 should indicate the year in the format DD / MM / YY. CAR 04. Section D.2 is absent in MR. Make the appropriate corrections. 	CAR 02- 04	ОК
Complian	ce with monitoring plan			
94	Did the monitoring occur in accordance with the monitoring plan included in the PDD regarding which the determination has been deemed final and is so listed on the	Data used for calculation of emissions reduction based on information that confirmed by ME "Makiivteplo-merezha", MCE "Mariupolteplo-merezha", "Artemivsk-Energy", Ltd documents.	CAR 05	ОК



DVM Paragra ph	Check Item	Initial finding	Draft Conclusi on	Final Conclusi on
	UNFCCC JI website?	CAR 05. Please specify the current version of the PDD in section A.7, and bring a detailed explanation deviation calculated values.		
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?	All key factors influencing the baseline emissions or net removals and the activity level of the project and the emissions or removals as well as risks associated with the project were taken into account, as appropriate for calculating the emission reductions or enhancements of net removals. CAR 06. Please specify in detail section and a table that contains the value on the link 11.	CAR 06	ОК
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 persons register data from the measurement equipments and fixed monitoring data to logbooks, monthly data collected to the technical reports. All roles and responsibilities are described in details in the Monitoring report. CAR 07. Link (5) hths.tp: / / oscill.com/files/27082006.pdf crashes. Please make the appropriate correction.	CAR 07- 08	ОК



DVM Paragra ph	Check Item	Initial finding	Draft Conclusi on	Final Conclusi on
		CAR 08. Please specify more detailed placement of Annexes 1-6.		
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?	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	ОК	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?	The calculation of emission reductions is based on conservative assumptions and the most plausible scenarios in a transparent manner. 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.	ОК	ОК
Applicab	e 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	Not applicable	Not applicable	Not applicable



DVM Paragra ph	Check Item	Initial finding	Draft Conclusi on	Final Conclusi on
	maximum emission reduction level estimated in the PDD for the JI SSC project or the bundle for the monitoring period determined?			
Applicab	le to bundled JI SSC projects only			
97 (a)	Has the composition of the bundle not changed from that is stated in F-JI-SSCBUNDLE?	Not applicable	Not applicable	Not applicable
97 (b)	If the determination was conducted on the basis of an overall monitoring plan, have the project participants submitted a common monitoring reports?	Not applicable	Not applicable	Not applicable
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 reports? Do the monitoring periods not overlap with those for which verifications were already deemed final in the past?	Not applicable	Not applicable	Not applicable
Revision	of monitoring plan			
Applicab	le only if monitoring plan is revised	by project participant		
99 (a)	Did the project participants provide an appropriate justification for the	Not applicable	Not applicable	Not applicable



DVM Paragra ph	Check Item	Initial finding	Draft Conclusi on	Final Conclusi on
99 (b)	proposed revision? 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?	Not applicable	Not applicable	Not applicable
Data man	agement			
101 (a)	Is the implementation of data collection procedures in accordance with the monitoring plan, including the quality control and quality assurance procedures?	Procedures of data collection are implemented in compliance with the approved monitoring plan. 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 internal audits and checking measures, participation of third parties, and carrying out of procedures of emergencies finding. CL 02. Please explain why monitoring reports for 2009 contain information about trainings for 2010?	CL 02-03	OK



DVM Paragra ph	Check Item	Initial finding	Draft Conclusi on	Final Conclusi on
		CL 03. Please provide information about EIA of the project and the conclusion of state ecological expertise.		
101 (b)	Is the function of the monitoring equipment, including its calibration status, is in order?	All monitoring equipments have calibration. It is calibrated with periodic frequency (passport states the calibration frequency for every device) according to the national regulations. During site visit verifiers received and reviewed passports and/or certificates on calibration of all measurement equipments. CL 04. Please provide the documents confirming the right of PE Umantsev A.P. to conduct verification of equipment.	CL 04	ОК
101 (c)	Are the evidence and records used for the monitoring maintained in a traceable manner?	The evidence and records used for the monitoring are maintained on site of some devices and in responsible departments 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 checked through site visit, and concluded that monitoring system is completely in accordance with the monitoring plan. This fact is also confirmed by the	ОК	OK



DVM Paragra ph	Check Item	Initial finding	Draft Conclusi on	Final Conclusi on
		documents.		
Verificati	on regarding programs of activities	(additional elements for assessment)		
102	Is any JPA that has not been added to the JI PoA not verified?	Not applicable	Not applicable	Not applicable
103	Is the verification based on the monitoring reports of all JPAs to be verified?	Not applicable	Not applicable	Not applicable
103	Does the verification ensure the accuracy and conservativeness of the emission reductions or enhancements of removals generated by each JPA?	Not applicable	Not applicable	Not applicable
104	Does the monitoring period not overlap with previous monitoring periods?	Not applicable	Not applicable	Not applicable
105	If the AIE learns of an erroneously included JPA, has the AIE informed the JISC of its findings in writing?	Not applicable	Not applicable	Not applicable
Applicab	le to sample-based approach only		-	1
106	Does the sampling plan prepared by the AIE: (a) Describe its sample selection, taking into account that: (i) For each verification that uses	Not applicable	Not applicable	Not applicable



DVM Paragra ph	Check Item	Initial finding	Draft Conclusi on	Final Conclusi on
	 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 types of JPAs; The complexity of the applicable technologies and/or measures used; The geographical location of each JPA; The amounts of expected emission reductions of the JPAs being verified; The number of JPAs for which emission reductions are being verified; The length of monitoring periods of the JPAs being verified; and The samples selected for prior verifications, if any? 			
107	Is the sampling plan ready for	Not applicable	Not	Not



DVM Paragra ph	Check Item	Initial finding	Draft Conclusi on	Final Conclusi on
	publication through the secretariat along with the verification report and supporting documentation?		applicable	applicable
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?	Not applicable	Not applicable	Not applicable
109	Is the sampling plan available for submission to the secretariat for the JISC.s ex ante assessment? (Optional)	Not applicable	Not applicable	Not applicable
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	Not applicable	Not applicable



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Table 2 Resolution of Corrective Action Requests and Clarification Requests

Draft report clarifications and corrective action requests by validation team	Ref. to checkli st questio n in table 1	Summary of project participant response	Verification team conclusion
CAR 01. The project start date is listed incorrectly in sections A.4, A.6 MR. According to the PDD the beginning of the project is on 01/10/2006. Make the appropriate corrections.	92	According to the determined PDD version 04 dated August 2, 2011, the starting date of the project is 15/03/2006 (see Section C.1. of PDD). 01/10/2006 is the starting date of the first monitoring period (see Section C.3. of PDD).	CAR 01 is closed based on the explanation provided.
CL 01. Please explain the difference between the estimated reduction are indicated in the PDD and actual values are indicated in the MR (Sections A.3 and D.3).	92	The explanation is given in Section D.3. of MR.	CL 01 is closed based on the explanation provided.
CAR 02. Please specify which sectoral scope project applies to.	93	This information is added in MR version 02.	CAR 02 is closed based on due corrections made to the MR



CAD 02 Table 1 and tables of castier		Currently there are no rules	
D.3 should indicate the year in the format DD / MM / YY.	93	regulating the form of a Monitoring Report, including the format for specifying dates. Taking into account this CAR, the proposed format of data is used in MRs version 02, but only for 2006. The other periods (2007, 2008, 2009 and 2010) cover the entire calendar year from January, 1st till December, 31st.	due corrections made to the MR.
CAR 04. Section D.2 is absent in MR. Make the appropriate corrections.	93	It is corrected in MR version 02.	CAR 04 is closed based on due corrections made to the MR.
CAR 05. Please specify the current version of the PDD in section A.7, and bring a detailed explanation deviation calculated values.	94	The actual version of PDD is provided in MR version 02. The relevant explanation is given in Section D.3. of MR.	CAR 05 is closed based on the explanation provided.
CAR 06. Please specify in detail section and a table that contains the value on the link 11.	95 (a)	This information is added in MR version 02.	CAR 06 is closed based on due corrections made to the MR.
CAR 07. Link (5) hths.tp: / / oscill.com/files/27082006.pdf crashes. Please make the appropriate correction.	95 (b)	The link is changed to http://oscill.com/files/27082006.pdf in MR version 02.	CAR 07 is closed based on due corrections made to the MR.



CAR 08. Please specify more detailed placement of Annexes 1-6.	95 (b)	It is provided in MR version 02.	CAR 08 is closed based on due corrections made to the MR.
CL 02. Please explain why monitoring reports for 2009 contain information about trainings for 2010?	101 (a)	As it is mentioned in the PDD and MR, the special training was held in June, 2010 for personnel involved in the process of collecting, processing and storage of data for monitoring of GHG emissions. This training was held in 2010 before preparation of the first MR.	CL 02 is closed based on the explanation provided.



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CL 04. Please provide the documents	101 (a)	As it is mentioned in Section F.1. of the PDD, the district heating enterprises that implement the project make the necessary Environmental Impact Assessment (EIA) for elements of this activity according to Ukrainian legislation, For example, the EIA for reconstruction of boiler-house #33 Uvileyna str.,117 Artemivsk City (#152 in the Project) has been fulfilled. In this EIA the following points are mentioned: impact on vegetative and animal world is not present, the project activity will not lead to changes in use of land, emissions will not exceed the emission limit level, and the project activity in general will not lead to worsening of environment conditions. The summary indicator of air pollution extent is 0.125, that is less than 1.0, which corresponds to allowable pollution level and safe level of danger.	CL 03 is closed the explanation	based on provided.
confirming the right of PE Umantsev A.P. to conduct verification of equipment.	(a) (b)	provided.	the explanation	provided.



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APPENDIX B: VERIFICATION TEAM

Rostislav Topchiy (chemical and ecological engineering)

Team Leader, Climate Change Verifier Bureau Veritas Ukraine Health, Safety and Environment Project Manager

He is a Lead auditor of Bureau Veritas Certification for Environment Management System, Quality Management System, Occupational Health and Safety Management System. He performed over 180 audits since 2004. He has successfully completed Climate Change Verifier Training Course and he participated as verifier in the verification of 20 JI projects.

Vitaliy Minyaylo (chemical and ecological engineering)

Team member, Climate Change Verifier Bureau Veritas Ukraine, Health, Safety and Environment Department Project Manager

He has successfully completed IRCA registered Lead Auditor Training Course for Environment Management Systems, Quality Management Systems, Occupational Health and Safety Management System. He has successfully completed Climate Change Verifier Training Course and he participated as verifier in the verification of 10 JI projects.

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

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



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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.