VERIFICATION REPORT

PJSC "OBLTEPLOCOMUNENERGO"

VERIFICATION OF THE

"REHABILITATION OF THE HEAT AND WATER SUPPLY SYSTEMS IN VINNYTSIA REGION"

INITIAL AND 1ST PERIODIC

FOR PERIOD FROM 01 JANUARY 2008

TO 30 JUNE 2012

REPORT NO. UKRAINE-VER/0756/2012

REVISION NO. 01

BUREAU VERITAS CERTIFICATION

Date of first issue:	Organizational unit:
29/11/2012	Bureau Veritas Certification Holding SAS
Client:	**Client ref.:**
PJSC "Oblteplocomunenergo"	Mr. Ivan M. Lusta

Summary:

Bureau Veritas Certification has made the initial and 1st periodic verification of the "Rehabilitation of the Heat and Water Supply Systems in Vinnytsia Region", project of PJSC "Oblteplocomunenergo" located in Vinnytsia region, Ukraine and applying JI specific approach, on the basis of UNFCCC criteria for the JI, as well as criteria given to provide for consistent project operations, monitoring and reporting. UNFCCC criteria refer to Article 6 of the Kyoto Protocol, the JI rules and modalities and the subsequent decisions by the JI Supervisory Committee, as well as the host country criteria.

The verification scope is defined as a periodic independent review and ex post determination by the Accredited Entity of the monitored reductions in GHG emissions during defined verification period, and consisted of the following three phases: i) desk review of the monitoring report against project design and the baseline and monitoring plan; ii) follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification report and opinion. The overall verification, from Contract Review to Verification Report & Opinion, was conducted using Bureau Veritas Certification internal procedures.

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

In summary, Bureau Veritas Certification confirms that the project is implemented as planned and described in approved project design documents. Installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately. The monitoring system is in place and the project is generating GHG emission reductions. The GHG emission reduction is calculated without material misstatements, and the ERUs issued totalize 1654163 tonnes of CO_2 equivalent for the monitoring period from 01/01/2008 to 30/06/2012.

Our opinion relates to the project's GHG emissions and resulting GHG emission reductions reported and related to the approved project baseline and monitoring, and its associated documents.

Report No.:	Subject Group:
UKRAINE-ver/0756/2012	JI

Project title:
"Rehabilitation of the Heat and Water Supply Systems in Vinnytsia Region"

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Date of this revision:	Rev. No.:	Number of pages:
29/11/2012	01	43

Bureau Veritas Certification Holding SAS

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1 INTRODUCTION

PJSC "Oblteplocomunenergo" has commissioned Bureau Veritas Certification to verify the emissions reductions of its JI project "Rehabilitation of the Heat and Water Supply Systems in Vinnytsia Region" (hereafter called "the project") at the Vinnytsia Region, Ukraine.

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

1.1 Objective

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

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

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

1.2 Scope

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

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

1.3 Verification Team

The verification team consists of the following personnel:

Topchiy Rostislav
Bureau Veritas Certification, Team Leader, Climate Change Lead Verifier

Minyaylo Vitaliy
Bureau Veritas Certification, Team Member, Climate Change Verifier

Vyacheslav Yeriomin
Bureau Veritas Certification, Technical Expert

This verification report was reviewed by:

Ivan Sokolov
Bureau Veritas Certification, Internal Technical Reviewer

Oleg Skoblyk
Bureau Veritas Certification, Technical Expert

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 Institute of Engineering Ecology and additional background documents related to the project design and baseline, i.e. country Law, Project Design Document (PDD), Guidance on criteria for baseline setting and monitoring, Host party criteria, Kyoto Protocol, Clarifications on Verification Requirements to be Checked by an Accredited Independent Entity were reviewed.

The verification findings presented in this report relate to the Monitoring Report version 01 of 15/09/2012, version 02 of 28/11/2012 and project as described in the determined PDD.

2.2 Follow-up Interviews

On 31/10/2012 Bureau Veritas Certification performed on-site interviews with project stakeholders to confirm selected information and to resolve issues identified in the document review. Representatives of PJSC "Oblteplocomunenergo", ME VCC "Vinnytsiamiskteploenergo", ME "Vinnytsiaoblteploenergo", DE "Mayak", ME "Vinnytsiaoblvodokanal" and Institute of Engineering Ecology were interviewed during site visit (see References for the list of interviewed persons). The main topics of the interviews are summarized in Table 1.

Table 1 Interview topics

Interviewed organization	Interview topics
PJSC "Oblteplo comunenergo", ME VCC "Vinnytsia miskteploenergo", ME "Vinnytsia oblteploenergo", DE "Mayak", ME "Vinnytsiaobl vodokanal"	➢ Organizational structure ➢ Responsibilities and authorities ➢ Roles and responsibilities for data collection and processing ➢ Installation of equipment ➢ Data logging, archiving and reporting ➢ Metering equipment control ➢ Metering record keeping system, database ➢ Training of personnel ➢ Quality management procedures and technology ➢ Internal audits and check-ups
Consultant: Institute of Engineering Ecology	➢ Monitoring plan ➢ Monitoring report ➢ Deviations from PDD ➢ ERUs calculation model

2.3 Resolution of Clarification, Corrective and Forward Action Requests

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

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

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

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

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

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

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

3 VERIFICATION CONCLUSIONS

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

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

The Clarification, Corrective and Forward Action Requests are stated, where applicable, in the following sections and are further documented in the Verification Protocol in Appendix A. The verification of the Project resulted in 04 Corrective Action Requests and 05 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

It was verified the implementation of corrective action to FAR 01 and CAR 04 from the determination. Corrective actions were implemented - Letter of Approval and form 2TP “air” were shown. FAR 01 and CAR 04 were closed.

3.2 Project approval by Parties involved (90-91)

Written project approval by the Host Party (Ukraine) has been issued by State Environmental Investment Agency of Ukraine #3650/23/7 dated 28/11/2012, Letter of Approval by Estonia # 12-1/8544-2 dated 22/10/2012 has been issued by Ministry of the Environment of Estonia, 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 approval is 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 Table 2 (refer to CAR 01).

3.3 Project implementation (92-93)

Project objective is to reduce greenhouse gas emissions due to fuel, in particular natural gas (which is imported to Ukraine), consumption reduction, as well as power consumption reduction, by means of rehabilitation of the heat and water supply systems in Vinnytsia region, including boiler-houses, CHPs, water (WPS) and sewage (SPS) pumping stations, and heat and water distribution network equipment replacement, modernization and rehabilitation. The purpose of the project is sustainable development of the Vinnytsia region through implementation of energy saving technologies.

The project was initiated 03/06/2003. The project employs the increase of fuel and energy resources (FER) consumption efficiency to reduce greenhouse gas emissions relative to current practice. The following activities will ensure fuel and energy resources saving:

- liquidation of low efficient boiler-houses with:
  - ✓ switching load to the high efficient boiler-houses and/or CHP plants;
  - ✓ construction of modular mini-boiler-houses;
- replacement of obsolete boilers with high efficient ones, including switching of boiler-houses to renewable resources (wood);
- rehabilitation of boilers with replacement and preventive maintenance measures for boilers burners, heated surfaces, etc.:
- optimization of heat load allocation and operational mode of equipment;
- optimization of heat supply network organization and network rehabilitation;
- consecutive switching of heat supply networks to preliminary insulated pipes;
- optimization of water load allocation;
- replacement of pipes of water supply and sewage networks;
- technical re-equipment of heat supply stations with highly effective heat exchangers and implementation of IHSS;
- implementation of heat recovery equipment;

- implementation of technology for carbon dioxide binding from flue gases;
- installation of frequency controllers at electric drives of pumps, blow fans and smoke exhausters;
- replacement / rehabilitation of pumps;
- installation of heat pump at SPS-3A for heating the station buildings;
- improvement of the feeding water quality by optimization of operational mode of water preparation system;
- implementation of control and monitoring systems.

Implementation of the project will provide substantial economic, environmental, and social benefits to the Vinnytsia Region. Social impact of the project is positive since after project implementation the heat and water supply services will be improved.

The actual operation of the proposed project is presented bellow.

#	Project stage	Volume of performed works (number of boilers, length of network replacement, etc.)					
		2003-2007	2008	2009	2010	2011	01.01.2012-30.06.2012
1	Liquidation of low efficient boiler-houses	-	3	4	2	2	1
2	Construction of modular mini-boiler-houses	-	1	-	1		-
3	Replacement of obsolete boilers with high efficient ones, including switching of boiler-houses to renewable resources (wood)	61	12	9	9	5	7
4	Rehabilitation of boilers with replacement and preventive maintenance measures for boilers burners, heated surfaces, implementation of technology for the exhaust gases heat recovery, etc.	20	18	17	10	2	-
5	Optimization of heat supply network organization and network rehabilitation	17448	10219	6149	5697	5697	920
6	Technical re-equipment	38	1	13	11	-	-

	of heat supply stations with highly effective heat exchangers and implementation of IHSS						
7	Rehabilitation and optimization of water supply and sewage removal networks	22,80	4,95	5,19	3,34	4,82	2,30
8	Installation of frequency controllers at electric drives of pumps, blow fans and smoke exhausters	15	9	17	10	5	-
9	Replacement / rehabilitation of pumps	208	10	22	12	13	1
10	Implementation of technology for carbon dioxide binding from flue gases	-	-	-	-	-	-
11	Installation of heat pump at SPS-3A for heating the station buildings	-	-	-	1	-	-
12	Optimization of load allocation	83	2	3	4	2	1
13	Improvement of the feeding water quality by optimization of operational mode of water preparation system	23	4	6	1	1	-
14	Implementation of control and monitoring systems	9	29	1	5	3	3

According to the results of the Monitoring Report, the actual achieved GHG emission reductions for period 2008-2011 are the same that was indicated in the PDD for this period, because the same approach was used for calculation emission reductions in PDD and Monitoring Report for this period.

The actual achieved GHG emission reductions for period 01.01.2012-30.06.2012 according to the Monitoring Report deviated from GHG emission reductions indicated in the PDD for 2012 year, because in the Monitoring Report calculations were done just for part (half) of 2012 and actual conditions were taking into account in calculations, while indicated in the PDD emission reductions for 2012 cover all the year and were conservatively estimated as equal to the actual data for the 2011 that don't represent actual situation in 2012.

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 CL 01, CL 02, CL03).

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

For calculating the emission reductions, key factors, such as, natural gas consumption by boiler houses and CHPs, electricity consumption by boiler-houses and CHPs, electricity generation by a CHP, averaged net calorific value of natural gas, heat energy consumption by the water supply system, electricity consumption by water supply system, carbon emission factors for natural gas, for electricity consumption and generation, average outside temperature during the heating period, average inside temperature during the heating period, number of consumers of hot water supply service, heated area for every boiler house, averaged heat transfer factor of heated buildings in the base year, heated area of reconstructed buildings with application of new heat insulation, heated area of newly connected buildings with application of the new heat insulation, heat transfer factor of buildings with new heat insulation, heating period duration for every boiler house, 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, total volume of water supplied to consumers influencing the baseline emissions and the activity level of the project and the emissions as well as risks associated with the project were taken into account, as appropriate.

Data sources used for calculating emission reductions, such as Boilerhouse records, Statistics of ME VCC "Vinnytsiamiskteploenergo", ME "Vinnytsiaoblteploenergo", DE "Mayak", ME "Vinnytsiaoblvodokanal", SNiP 2-3-79 (1998), State Buildings Norms B.2.6-31:2006, KTM 204 Ukraine 244-94, "National inventory report of Ukraine for 1990 – 2010", Orders of the National Environmental Investment Agency of Ukraine 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 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 Table 2 (refer to CAR 02, CAR 03).

3.5 Revision of monitoring plan (99-100)

Not applicable.

3.6 Data management (101)

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

The implementation of data collection procedures is in accordance with the monitoring plan, including the quality control and quality assurance procedures.

Data collection for natural gas consumption is provided in the following way:

1. Natural gas consumption is measured by gas flow meter, installed at a boiler-house (CHP). All boiler-houses and CHPs are equipped with gas flow meters.
2. The majority of boiler-houses are equipped with automatic correctors for gas 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 heat supply enterprises, where they are storing and used for payments to gas suppliers.
5. Every month the account centers transfer data to gas suppliers.

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

Measurement equipment calibration was carried out by SE "Vinnytsiastandartmetrologiya".

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.

Manager of the JI project, First Deputy Head of the Board of PJSC "Oblteplocomunenergo", Mr. Oleksiy Teterya, controls and checks up the adequacy of the data collection mechanism and the reliability of parameters of the Monitoring plan and other information on project implementation.

Any problem occurring that concerns this project is to be reported immediately to the project manager, who takes the appropriate measures.

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 04, CAR 05, CL 05).

3.7 Verification regarding programmes of activities (102-110)

Not applicable.

4 VERIFICATION OPINION

Bureau Veritas Certification has performed the initial and 1st periodic verification of the project "Rehabilitation of the Heat and Water Supply Systems in Vinnytsia Region" located in Vinnytsia region, Ukraine, which applies the JI Specific approach. The verification was performed on the basis of UNFCCC criteria and host country criteria and also on the criteria given to provide for consistent project operations, monitoring and reporting.

The verification consisted of the following three phases: i) desk review of monitoring report against the project design and the baseline and monitoring plan; ii) follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification report and opinion.

The management of the project is responsible for the preparation of the GHG emissions data on the basis set out within the project Monitoring Plan indicated in the final PDD version, as well as maintenance of records and reporting procedures in accordance with that plan. Project Developer is responsible for calculation and determination of GHG emission reductions from the project and the reported GHG emissions reductions of the project.

The actual achieved GHG emission reductions for period 01.01.2012-30.06.2012 according to the Monitoring Report deviated from GHG emission reductions indicated in the PDD for 2012 year, because in the Monitoring Report calculations were done just for part (half) of 2012 and actual conditions were taking into account in calculations, while indicated in the PDD emission reductions for 2012 cover all the year and were conservatively estimated as equal to the actual data for the 2011 that don't represent actual situation in 2012.

Bureau Veritas Certification verified the Project Monitoring Report version 02 for the reporting period as indicated below. Bureau Veritas Certification confirms that the project is implemented as planned and described in approved project design documents. Installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately. The monitoring system is in place and the project is generating GHG emission reductions.

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

Reporting period: From 01/01/2008 to 30/06/2012

For the period from 01/01/2008 to 31/12/2008
Baseline emissions : 491 758 tonnes of CO_2 equivalent.
Project emissions : 265 143 tonnes of CO_2 equivalent.
Emission Reductions : 226 615 tonnes of CO_2 equivalent.

For the period from 01/01/2009 to 31/12/2009
Baseline emissions : 562 188 tonnes of CO_2 equivalent.
Project emissions : 282 974 tonnes of CO_2 equivalent.
Emission Reductions : 279 214 tonnes of CO_2 equivalent.

For the period from 01/01/2010 to 31/12/2010
Baseline emissions : 783 781 tonnes of CO_2 equivalent.
Project emissions : 365 143 tonnes of CO_2 equivalent.
Emission Reductions : 418 638 tonnes of CO_2 equivalent.

For the period from 01/01/2011 to 31/12/2011
Baseline emissions : 796 540 tonnes of CO_2 equivalent.
Project emissions : 357 594 tonnes of CO_2 equivalent.
Emission Reductions : 438 946 tonnes of CO_2 equivalent.

For the period from 01/01/2012 to 30/06/2012

Baseline emissions	:	499 840 tonnes of CO_2 equivalent.
Project emissions	:	209 090 tonnes of CO_2 equivalent.
Emission Reductions	:	290 750 tonnes of CO_2 equivalent.

Total for the period from 01/01/2008 to 30/06/2012

Baseline emissions	:	3134107 tonnes of CO_2 equivalent.
Project emissions	:	1479944 tonnes of CO_2 equivalent.
Emission Reductions	:	1654163 tonnes of CO_2 equivalent.

5 REFERENCES

Category 1 Documents:

Documents provided by PJSC "Oblteplocomunenergo" that relate directly to the GHG components of the project.

/1/ Monitoring Report, version 01, dated 15 October 2012.

/2/ Monitoring Report, version 02, dated 28 November 2012.

/3/ Project Design Document, version 4, dated 21 September 2012.

/4/ Letter of Approval from State Environmental Investment Agency of Ukraine # 3650/23/7 dated 28/11/2012.

/5/ Letter of Approval by Ministry of the Environment of Estonia # 12-1/8544-2 dated 22/10/2012.

/6/ Excel spreadsheet of the emission reductions calculation version

/7/ Determination and Verification Manual, version 01.

Category 2 Documents:

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

#	**ME VCC «Vinnytsiamiskteploenergo»**
1.	Contract on joint activities of 07.05.2012. PSC «Oblteplocomunenergo» c. Chernihiv, ME VCC «Vinnytsiamiskteploenergo», ME «Vinnytsiaoblteploenergo», DE «Mayak», ME «Vinnytsiaoblvodokanal»
2.	Letter №2658/23/7 of 19.09.2012 State Environmental Investment Agency of Ukraine. Support project
3.	Letter №207-10-376 of 02.06.2003 Vinnytsia Regional Council. Support project
4.	Letter №4-3-6-2394 of 03.06.2003 Vinnytsia City Council. Support project
5.	Contract №405 of 29.10.1999 Institute of Industrial Ecology
6.	License №597514. Heat production (except certain kinds of business activities in the area of heat supply, in case if heat is produced by cogeneration plants and plants using alternative or renewable energy sources) (23.06.2012-22.06.2017)
7.	License №597516. Heat supply (23.06.2012-22.06.2017)
8.	License №597515. Transportation by trunk and local (distributing)

	heating networks, heat supply (23.06.2012-22.06.2017)
9.	License №34090. Heat production, its transportation by trunk and local (distributing) heating networks, heat supply (except certain kinds of business activities in the area of heat supply, in case if heat is produced by cogeneration plants and plants using alternative or renewable energy sources) (22.06.2007-22.06.2012)
10.	Decision №2502 of 11.10.2007 «On the beginning of the heating season 2007-2008». Vinnytsia City Council
11.	Decision №892 of 10.04.2008 «About the end of the heating season 2007-2008». Vinnytsia City Council
12.	Decision №2503 of 16.10.2008 «On the beginning of the heating season 2008-2009». Vinnytsia City Council
13.	Decision №681 of 06.04.2009 «About the end of the heating season 2008-2009». Vinnytsia City Council
14.	Decision №2298 of 08.10.2009 «On the beginning of the heating season 2009-2010». Vinnytsia City Council
15.	Decision №749 of 08.04.2010 «About the end of the heating season 2009-2010». Vinnytsia City Council
16.	Decision №2141 of 05.10.2010 «On the beginning of the heating season 2010-2011». Vinnytsia City Council
17.	Decision №931 of 14.04.2011 «About the end of the heating season 2010-2011». Vinnytsia City Council
18.	Decision №2455 of 10.10.2011 «On the beginning of the heating season 2011-2012». Vinnytsia City Council
19.	Decision №907 of 17.04.2012 «About the end of the heating season 2011-2012». Vinnytsia City Council
20.	Order №323 of 20.08.2012 «On a working group and the term document storage» ME VCC «Vinnytsiamiskteploenergo»
21.	Reference of №07/1142 of 05.09.2012 class of electricity consumers
22.	Permission №510136300-125 on pollutants emissions into the atmosphere by stationary sources (21.03.2011-21.03.2016)
23.	Permission №510136600-47/1 amending Permission №510136600-47 on pollutants emissions into the atmosphere by stationary sources (29.01.2009-13.04.2013)
24.	Permission №510136600-47 on pollutants emissions into the atmosphere by stationary sources (13.04.2008-13.04.2013)
25.	The documents, which substantiate the amount of emissions to permit the emission of pollutants into the atmosphere by stationary

	sources. Boiler-houses №55, Pyrohova str., 25. PE «INTER-ECO». 2008
26.	Report on the inventory of emissions of pollutants into the atmosphere by stationary sources. Boiler-houses №33, Chervonoarmiyska str., 57. PE «INTER-ECO». 2011
27.	Report on the inventory of emissions of pollutants into the atmosphere by stationary sources. Boiler-houses №55, Pyrohova str., 25. PE «INTER-ECO». 2011
28.	Report on air protection form 2-TP «air» in 2008
29.	Report on air protection form 2-TP «air» in 2009
30.	Report on air protection form 2-TP «air» in 2010
31.	Report on air protection form 2-TP «air» in 2011
32.	Report on air protection form 2-TP «air» in I quarter of 2012
33.	Report on air protection form 2-TP «air» in II quarter of 2012
34.	Reference of average daily temperatures and average pressure in January 2008
35.	Reference of average daily temperatures and average pressure in February 2008
36.	Reference of average daily temperatures and average pressure in March 2008
37.	Reference of average daily temperatures and average pressure in April 2008
38.	Reference of average daily temperatures and average pressure in October 2008
39.	Reference of average daily temperatures and average pressure in November 2008
40.	Reference of average daily temperatures and average pressure in December 2008
41.	Reference of average daily temperatures and average pressure in January 2009
42.	Reference of average daily temperatures and average pressure in February 2009
43.	Reference of average daily temperatures and average pressure in March 2009
44.	Reference of average daily temperatures and average pressure in April 2009
45.	Reference of average daily temperatures and average pressure in

	October 2009
46.	Reference of average daily temperatures and average pressure in November 2009
47.	Reference of average daily temperatures and average pressure in December 2009
48.	Reference of average daily temperatures and average pressure in January 2010
49.	Reference of average daily temperatures and average pressure in February 2010
50.	Reference of average daily temperatures and average pressure in March 2010
51.	Reference of average daily temperatures and average pressure in April 2010
52.	Reference of average daily temperatures and average pressure in October 2010
53.	Reference of average daily temperatures and average pressure in November 2010
54.	Reference of average daily temperatures and average pressure in December 2010
55.	Reference of average daily temperatures and average pressure in January 2011
56.	Reference of average daily temperatures and average pressure in February 2011
57.	Reference of average daily temperatures and average pressure in March 2011
58.	Reference of average daily temperatures and average pressure in April 2011
59.	Reference of average daily temperatures and average pressure in October 2011
60.	Reference of average daily temperatures and average pressure in November 2011
61.	Reference of average daily temperatures and average pressure in December 2011
62.	Reference of average daily temperatures and average pressure in January 2012
63.	Reference of average daily temperatures and average pressure in February 2012
64.	Reference of average daily temperatures and average pressure in

	March 2012
65.	Reference of average daily temperatures and average pressure in April 2012
66.	Register thermal loads facilities, heating in 2008
67.	Register thermal loads facilities, heating in 2009
68.	Register thermal loads facilities, heating in 2009
69.	Register thermal loads facilities, heating in 2010
70.	Output Monitoring (base 2002)
71.	Output Monitoring 2008
72.	Output Monitoring 2009
73.	Output Monitoring 2010
74.	Output Monitoring 2011
75.	Contract №06/08-1563 BO-1 of 29.09.2008 for the purchase of natural gas «Naftogaz of Ukraine»
76.	Contract №06/08-1562 TE-1 of 29.09.2008 for the purchase of natural gas «Naftogaz of Ukraine»
77.	Contract №06/09-894 BO-1 of 23.09.2009 for the purchase of natural gas «Naftogaz of Ukraine»
78.	Contract №06/09-893 TE-1 of 23.09.2009 for the purchase of natural gas «Naftogaz of Ukraine»
79.	Contract №06/09-1462 of 23.09.2009 for the purchase of natural gas «Naftogaz of Ukraine»
80.	Contract №06/10-1167 BO-1 of 14.10.2010 for the purchase of natural gas «Naftogaz of Ukraine»
81.	Contract №06/10-2214 BO-1 of 20.12.2010 for the purchase of natural gas «Naftogaz of Ukraine»
82.	Contract №06/10-1166 TE-1 of 14.10.2010 for the purchase of natural gas «Naftogaz of Ukraine»
83.	Contract №06/10-2213 TE-1 of 20.12.2010 for the purchase of natural gas «Naftogaz of Ukraine»
84.	Contract №06/10-2215 of 20.12.2010 for the purchase of natural gas «Naftogaz of Ukraine»
85.	Contract №06/11-694 BO-1 of 30.08.2011 for the purchase of natural gas «Naftogaz of Ukraine»
86.	Contract №14/2462/11 of 30.09.2011 for the purchase of natural gas «Naftogaz of Ukraine»

87.	Contract №06/11-1185 of 30.08.2011 for the purchase of natural gas «Naftogaz of Ukraine»
88.	Contract №14/2414/11 of 30.09.2011 for the purchase of natural gas «Naftogaz of Ukraine»
89.	Contract №14/2634/11 of 30.09.2011 for the purchase of natural gas «Naftogaz of Ukraine»
90.	Contract №Т-11-14в of 03.11.2011 for the purchase of natural gas PJSC «Vinnytsiagaz»
91.	Contract №Т-11-14н of 03.11.2011 for the purchase of natural gas PJSC «Vinnytsiagaz»
92.	Contract №Р-11-08 of 03.11.2011 for the purchase of natural gas PJSC «Vinnytsiagaz»
93.	Contract for the purchase of electricity №220200 of 10.01.2012 PJSC «Vinnitsaoblenergo»
94.	Contract for the transfer of electricity № 35 of 10.01.2012 PJSC «Vinnitsaoblenergo»
95.	Report on use of fuel and energy resources by 2002. RTM №1
96.	Report on use of fuel and energy resources by 2002. RTM №2
97.	Report on use of fuel and energy resources by 2002. RTM №3
98.	Report on use of fuel and energy resources by 2002. RTM №4
99.	Proceedings of the thermal power plant by 2002. CHP-1
100.	Report on use of fuel and energy consumption and heat generation by 2008. RTM №1
101.	Report on use of fuel and energy consumption and heat generation by 2008. RTM №2
102.	Report on use of fuel and energy consumption and heat generation by 2008. RTM №3
103.	Proceedings of the thermal power plant by 2002. CHP-1
104.	Proceedings of the thermal power plant by 2002. CHP-4
105.	Report on use of fuel and energy consumption and heat generation by 2009. RTM №1
106.	Report on use of fuel and energy consumption and heat generation by 2009. RTM №2
107.	Report on use of fuel and energy consumption and heat generation by 2009. RTM №3
108.	Report on use of fuel and energy consumption and heat generation

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109.	Report on use of fuel and energy consumption and heat generation by 2010. RTM №1
110.	Report on use of fuel and energy consumption and heat generation by 2010. RTM №2
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112.	Report on use of fuel and energy consumption and heat generation by 2010. CHP-1, CHP-4
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117.	Report on cost of electricity by 2008. RTM №1
118.	Report on cost of electricity by 2008. RTM №2
119.	Report on cost of electricity by 2008. RTM №3
120.	Report on cost of electricity by 2009. RTM №1
121.	Report on cost of electricity by 2009. RTM №2
122.	Report on cost of electricity by 2009. RTM №3
123.	Report on cost of electricity by 2010. RTM №1
124.	Report on cost of electricity by 2010. RTM №2
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126.	Report on cost of electricity by 2011. RTM №1
127.	Report on cost of electricity by 2011. RTM №2
128.	Report on cost of electricity by 2011. RTM №3
129.	Report on energy consumption in the boiler house for the first half of 2012
130.	Report on the use of fuel and heat generation in the boiler house for the first half of 2012
131.	Report on the use of fuel and heat generation in the CHP-1, CHP-4 for the first half of 2012

132.	Protocol gas quality of 18.06.2012
133.	Protocol gas quality of 11.06.2012
134.	Protocol gas quality of 05.06.2012
135.	Protocol gas quality of 28.05.2012
136.	Protocol gas quality of 21.05.2012
137.	Protocol gas quality of 14.05.2012
138.	Protocol gas quality of 07.05.2012
139.	Protocol gas quality of 03.05.2012
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149.	Protocol gas quality of 20.02.2012
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154.	Protocol gas quality of 16.01.2012
155.	Protocol gas quality of 10.01.2012
156.	Protocol gas quality of 26.12.2011
157.	Protocol gas quality of 28.11.2011
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159.	Protocol gas quality of 14.11.2011
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168.	Protocol gas quality of 27.12.2010
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170.	Protocol gas quality of 25.10.2010
171.	Protocol gas quality of 12.04.2010
172.	Protocol gas quality of 29.03.2010
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174.	Protocol gas quality of 01.02.2010
175.	Protocol gas quality of 29.12.2009
176.	Protocol gas quality of 30.11.2009
177.	Protocol gas quality of 26.10.2009
178.	Protocol gas quality of 14.04.2009
179.	Protocol gas quality of 30.03.2009
180.	Protocol gas quality of 23.02.2009
181.	Protocol gas quality of 26.01.2009
182.	Protocol gas quality of 22.12.2008
183.	Protocol gas quality of 24.11.2008
184.	Protocol gas quality of 27.10.2008
185.	Protocol gas quality of 14.04.2008
186.	Protocol gas quality of 24.03.2008
187.	Protocol gas quality of 25.02.2008
188.	Protocol gas quality of 28.01.2008
189.	Plan of localization and liquidation of emergencies and disasters in the gas sector ME «Vinnytsiamiskteploenergo» CHP-4
190.	Plan of localization and liquidation of emergencies and disasters in the gas sector ME «Vinnytsiamiskteploenergo» CHP-1
191.	Plan of localization and liquidation of emergencies and accidents for two boilers PTVM-30, KVGM-50 in Vinnytsia 600-richchya str., 13 ME «Vinnytsiamiskteploenergo»
192.	Plan schedule planned repair boiler house equipment on

	Tarnogrodskoho str. 31, 2012
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194.	Plan schedule planned repair boiler house equipment on Kotsyubynskoho str., 50, 2012
195.	Plan schedule planned repair boiler house equipment on Blyuhera str., 20, 2012
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198.	Plan schedule planned repair boiler house equipment on 600-richchya str., 13, 2012
199.	Plan schedule planned repair equipment on CHP-4, 2012
200.	Plan schedule planned repair equipment on CHP-1 2012
201.	Act transmission assets from 01.06.2012. Monobloc pumps FHE 50-160/75 3x400, RTM-2
202.	Protocol №26 of 19.04.2012 of commission meeting on testing of knowledge on labour safety
203.	Protocol №15 of 14.03.2012 of commission meeting on testing of knowledge on labour safety
204.	Protocol №12 of 05.03.2012 of commission meeting on testing of knowledge on labour safety
205.	Protocol №38 of 22.04.2011 of commission meeting on testing of knowledge on labour safety
206.	Protocol №225 of 06.10.2011 qualification commission meeting
207.	Protocol №217 of 30.09.2011 qualification commission meeting
208.	Protocol №209 of 24.03.2011 qualification commission meeting
209.	Protocol №7 of 05.03.2010 of commission meeting on testing of knowledge on labour safety
210.	Protocol №15 of 09.04.2010 of commission meeting on testing of knowledge on labour safety
211.	Protocol №219 of 01.10.2010 qualification commission meeting
212.	Protocol №220 of 01.10.2010 qualification commission meeting
213.	Protocol №219 of 25.09.2009 qualification commission meeting
214.	Protocol №206 of 08.04.2009 qualification commission meeting

215.	Protocol №203 of 25.03.2009 qualification commission meeting
216.	Protocol №236 of 06.10.2008 qualification commission meeting
217.	Protocol №209 of 09.04.2008 qualification commission meeting
218.	Protocol №206 of 25.03.2008 qualification commission meeting
219.	Passport. Gas meter G100-80-1,0 №101766, M. Koshki str., 12/2
220.	Passport. Irvis-K300 №5177, M. Koshki str., 12/2
221.	Passport. Irvis-K300 №5178, P. Komuny str., 18
222.	Passport. Gas Corrector «Universal-02» №5557, P. Komuny str., 18
223.	Passport. Gas Corrector «Universal-02» №7576, M. Koshki str., 12/2
224.	Passport. Electricity meter LZQM 321.02.534 №517642, P. Komuny str., 18
225.	Passport. Electricity meter LZQM 321.02.534 №517639, P. Komuny str., 18
226.	Passport. Electricity meter ET 3B5E8ULRT+ №11815, M. Koshki str., 12/2
227.	Passport. Electricity meter ET 3B5E8ULRT+ №11813, M. Koshki str., 12/2
228.	Certificate №516 Stavytskiy P.V. - operator of boiler house, P. Komuny str., 18
229.	Certificate №1061 Nagorodnyuk L.P. - operator of boiler house, P. Komuny str., 18
230.	Certificate №12.3.1 Komborot M.A. - operator of boiler house, M. Koshki str., 12/2
231.	Passport. Boiler-water KVG-7,56 №856, M. Koshki str., 12/2
232.	Passport. Boiler-water KVG-7,56 №1012, M. Koshki str., 12/2
233.	Passport. Boiler-water KVG-7,56 №1011, M. Koshki str., 12/2
234.	Passport. Boiler-water TVG-8M №13299, P. Komuny str., 18
235.	Passport. Boiler-water TVG-8M №1076, P. Komuny str., 18
236.	Passport. Boiler-water TVG-8M №1077, P. Komuny str., 18
237.	Register of the use of gas, boiler house M. Koshki str., 12/2
238.	Register of the use of gas, boiler house P. Komuny str., 18
239.	Register of electricity consumption Koshki str., 12/2

240.	Register of electricity consumption Komuny str., 18
	ME «Vinnytsiaoblteploenergo»
241.	License №597481. Heat production (except certain kinds of business activities in the area of heat supply, in case if heat is produced by cogeneration plants and plants using alternative or renewable energy sources) (13.06.2012-12.06.2017)
242.	License №597516. Heat supply (13.06.2012-12.06.2017)
243.	License №597515. Transportation by trunk and local (distributing) heating networks, heat supply (13.06.2012-12.06.2017)
244.	License №34090. Heat production, its transportation by trunk and local (distributing) heating networks, heat supply (except certain kinds of business activities in the area of heat supply, in case if heat is produced by cogeneration plants and plants using alternative or renewable energy sources) (12.06.2007-12.06.2012)
245.	Order №121 of 07.06.2012 «On a working group and the term document storage» ME «Vinnytsiaoblteploenergo»
246.	Report on air protection form 2-TP «air» in 2008
247.	Report on air protection form 2-TP «air» in 2009
248.	Report on air protection form 2-TP «air» in 2010
249.	Report on air protection form 2-TP «air» in 2011
250.	Report on air protection form 2-TP «air» in I quarter of 2012
251.	Report on air protection form 2-TP «air» in II quarter of 2012
252.	Contract №20/12/v of 26.05.2011 to transfer waste. LTD «Dobrobut Eco-Ukraine»
253.	Contract №1896649 of 20.03.2012 to transfer scrap. PJSC «Podillyavtormetal»
254.	Act №01-0050 of 19.06.2012 taking ferrous metals
255.	Act transmission assets from 20.02.2012. Boiler OBK-100 LWE №311303012
256.	Act transmission assets from 20.02.2012. Boiler OBK-100 LWE №3113033
257.	Contract №06/10-2255 BO-1 of 29.12.2010 for the purchase of natural gas «Naftogaz of Ukraine»
258.	Contract №06/10-991 BO-1 of 14.10.2010 for the purchase of natural gas «Naftogaz of Ukraine»
259.	Contract №06/09-1346 BO-1 of 23.09.2009 for the purchase of natural gas «Naftogaz of Ukraine»

260.	Contract №06/08-1689 BO-1 of 29.09.2008 for the purchase of natural gas «Naftogaz of Ukraine»
261.	Contract №06/10-990 TE-1 of 14.10.2010 for the purchase of natural gas «Naftogaz of Ukraine»
262.	Contract №06/10-2254 TE-1 of 29.12.2010 for the purchase of natural gas «Naftogaz of Ukraine»
263.	Contract №06/09-1345 TE-1 of 23.09.2009 for the purchase of natural gas «Naftogaz of Ukraine»
264.	Contract №06/09-1688 TE-1 of 29.09.2008 for the purchase of natural gas «Naftogaz of Ukraine»
265.	Contract №14/2534/11 of 30.09.2011 for the purchase of natural gas «Naftogaz of Ukraine»
266.	Contract №590/12 of 22.12.2011 for the purchase of natural gas PJSC «Vinnytsiagaz»
267.	Contract №589/12 of 22.12.2011 for the purchase of natural gas PJSC «Vinnytsiagaz»
268.	Output Monitoring (base 2002)
269.	Output Monitoring 2008
270.	Output Monitoring 2009
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272.	Output Monitoring 2011
273.	Output Monitoring for the first half 2012
274.	Report fuels and heat 2008
275.	Report fuels and heat 2009
276.	Report fuels and heat 2010
277.	Report fuels and heat 2011
278.	Report on the use of electricity 2008
279.	Report on the use of electricity 2009
280.	Report on the use of electricity 2010
281.	Report on the use of electricity 2011
282.	Protocol №10-R of 22.03.2012 of commission meeting on testing of knowledge on labour safety
283.	Protocol №11-R of 29.03.2012 of commission meeting on testing of knowledge on labour safety
284.	Protocol №210 of 24.03.2011 qualification commission meeting

285.	Protocol №211 of 31.03.2011 qualification commission meeting
286.	Protocol №203 of 19.03.2010 qualification commission meeting
287.	Protocol №207 of 20.03.2009 qualification commission meeting
288.	Protocol №208 of 27.03.2009 qualification commission meeting
289.	Protocol №210 of 20.03.2008 qualification commission meeting
290.	Protocol №211 of 27.03.2008 qualification commission meeting
291.	Register registrations, applications, complaints and personal reception of citizens
292.	Certificate №811 Madiyanskiy O.S. - operator of boiler house, Zhmerynka, Petrovskoho str., 12
293.	Certificate №42 Madiyanskiy Y.S. - operator of boiler house, Zhmerynka, Petrovskoho str., 12
294.	Certificate №557 Kuzmin K.M. - operator of boiler house, Zhmerynka, Petrovskoho str., 12
295.	Certificate №284 Kuzmin P.M. - operator of boiler house, Zhmerynka, Petrovskoho str., 12
296.	Certificate №2244 Gymenuk T.O. - operator of boiler house, Kashperivka, Sanatornyi lane, 1
297.	Certificate №13005 Buyal'skiy C.Z. - operator of boiler house, Kashperivka, Sanatornyi lane, 1
298.	Certificate №2241 Buyal'skiy N.M. - operator of boiler house, Kashperivka, Sanatornyi lane, 1
299.	Passport. Gas meter LGK-80-160-1.6-01-Ex №8819, Zhmerynka, Petrovskoho str., 12
300.	Passport. Gas meter RGK-100-0,1-0,1-5 №8858, Kashperivka, Sanatornyi lane, 1
301.	Passport. Electricity meter NIK 2301 AP3 №0185055, Zhmerynka, Petrovskoho str., 12
302.	Passport. Electricity meter NIK 2301 AP3 №0153760, Kashperivka, Sanatornyi lane, 1
303.	Passport. Boiler-water KOLVI 500 №1874/1277, Zhmerynka, Petrovskoho str., 12
304.	Passport. Boiler-water KOLVI 200 №1884.1289, Kashperivka, Sanatornyi lane, 1
305.	Register of the use of gas, boiler house Zhmerynka, Petrovskoho str., 12

306.	Register of the use of gas, boiler house Kashperivka, Sanatornyi lane, 1
307.	Register of electricity consumption, boiler house Medvedeva str., 1
308.	Register of electricity consumption, boiler house Zhmerynka , Petrovskoho str., 12
309.	Register of electricity consumption, boiler house Kashperivka, Sanatornyi lane, 1
	DE «Mayak»
310.	License №597466. Heat production (except certain kinds of business activities in the area of heat supply, in case if heat is produced by cogeneration plants and plants using alternative or renewable energy sources) (13.06.2012-12.06.2017)
311.	License №597468. Heat supply (13.06.2012-12.06.2017)
312.	License №597467. Transportation by trunk and local (distributing) heating networks, heat supply (13.06.2012-12.06.2017)
313.	License №345071. Heat production, its transportation by trunk and local (distributing) heating networks, heat supply (except certain kinds of business activities in the area of heat supply, in case if heat is produced by cogeneration plants and plants using alternative or renewable energy sources) (12.06.2007-12.06.2012)
314.	Order №30 of 23.07.2012 «On a working group and the term document storage» DE «Mayak»
315.	Contract - Lease №2-10 of 01.03.2010 LTD «Teplocomunenergo Mayak Ltd» with DE «Teplocomunenergo Mayak»
316.	Permission №510136600-8 on pollutants emissions into the atmosphere by stationary sources (20.03.2008-20.03.2013)
317.	The documents, which substantiate the amount of emissions to permit the emission of pollutants into the atmosphere by stationary sources. DE «Mayak». MVP «EOL-LTD». 2008
318.	Register of stationary pollution sources and their characteristics. (POD-1)
319.	Report on air protection form 2-TP «air» in 2008
320.	Report on air protection form 2-TP «air» in 2009
321.	Report on air protection form 2-TP «air» in 2010
322.	Report on air protection form 2-TP «air» in 2011
323.	Report on air protection form 2-TP «air» in I quarter of 2012
324.	Report on air protection form 2-TP «air» in II quarter of 2012

325.	Contract №T-11-15 of 30.09.2011 for the supply of natural gas at regulated tariffs PJSC «Vinnytsiagaz»
326.	Contract №14/2315/11 of 30.09.2011 on the sale of natural gas «Naftogaz of Ukraine»
327.	Contract №06/11-698 BO-1 of 30.08.2011 for the purchase of natural gas «Naftogaz of Ukraine»
328.	Contract №06/10-2252 TE-1 of 20.12.2010 for the purchase of natural gas «Naftogaz of Ukraine»
329.	Contract №06/10-973 TE-1 of 06.10.2010 for the purchase of natural gas «Naftogaz of Ukraine»
330.	Contract №06/10-974 BO-1 of 06.10.2010 for the purchase of natural gas «Naftogaz of Ukraine»
331.	Contract №06/10-2253 BO-1 of 20.12.2010 for the purchase of natural gas «Naftogaz of Ukraine»
332.	Contract №06/09-1433 TE-1 of 23.09.2009 for the purchase of natural gas «Naftogaz of Ukraine»
333.	Contract №06/09-1434 BO-1 of 23.09.2009 for the purchase of natural gas «Naftogaz of Ukraine»
334.	Contract №06/08-1611 TE-1 of 29.09.2008 for the purchase of natural gas «Naftogaz of Ukraine»
335.	Contract №06/08-1612 BO-1 of 29.09.2008 for the purchase of natural gas «Naftogaz of Ukraine»
336.	Contract on procurement of goods by public funds (electricity) №220100 of 30.12.2011 PJSC «Vinnitsaoblenergo»
337.	Output Monitoring 2008-2011
338.	Report on the use of fuel, heat energy and electricity for the first half 2012 (Form №11-MTP)
339.	Report on the use of fuel, heat energy and electricity by 2011 (Form №11-MTP)
340.	Report on the use of fuel, heat energy and electricity by 2010 (Form №11-MTP)
341.	Report on the use of fuel, heat energy and electricity by 2009 (Form №11-MTP)
342.	Report on the use of fuel, heat energy and electricity by 2008 (Form №11-MTP)
343.	Report on balances and the use of energy materials and products of petroleum by 2011 (form №4-MTP)

344.	Report on balances and the use of energy materials and products of petroleum by 2010 (form №4-MTP)
345.	Report on balances and the use of energy materials and products of petroleum by 2009 (form №4-MTP)
346.	Report on balances and the use of energy materials and products of petroleum by 2008 (form №4-MTP)
347.	Protocol №4 of 15.01.2012 of commission meeting on testing of knowledge on labour safety
348.	Protocol №5 of 24.01.2012 of commission meeting on testing of knowledge on labour safety
349.	Protocol №190 of 13.10.2011 qualification commission meeting
350.	Protocol №144/1 of 25.10.2010 qualification commission meeting
351.	Schedule repair heating systems, CHP, boiler house in 2008
352.	Schedule repair heating systems, CHP, boiler house in 2009
353.	Schedule repair heating systems, CHP, boiler house in 2010
354.	Schedule repair heating systems, CHP, boiler house in 2011
355.	Passport. Gas meter LGK-200-1/20-1,6-1-Ex №10819
356.	Passport. Gas meter LGK-200-1/20-1,6-1-Ex №10812
357.	Passport. Gas Corrector «Universal» №1163
358.	Passport. Electricity meter «Energia-9» №28438
359.	Passport. Electricity meter«Energia-9» №28385
360.	Passport. Boiler-water PTVM-30M №776
361.	Passport. Boiler-water PTVM-30M №1119
362.	Passport. Boiler-water PTVM-30M №2826
363.	Passport. Boiler-water PTVM-30M №838
364.	Register of the use of gas
	ME «Vinnytsiaoblvodokanal»
365.	Order №272 of 30.08.2012 «On a working group and the term document storage»
366.	Special water use permit №3297 of 22.11.2007
367.	Special water use permit №4501 of 16.11.2010
368.	Special water use permit №5142 of 11.01.2012
369.	Contract for the supply of electricity №1216/63 of 21.03.2010 JSC «Vinnitsaoblenergo»

370.	Reference. Electricity consumption in 2008
371.	Reference. Electricity consumption in 2009
372.	Reference. Electricity consumption in 2010
373.	Reference. Electricity consumption in 2011
374.	Reference. With heat consumption in the first half of 2012
375.	Reference. Implementation of water in the first half of 2012
376.	Report on water supply by 2008 (form №1 - plumbing)
377.	Report on water supply by 2009 (form №1 - plumbing)
378.	Report on water supply by 2010 (form №1 - plumbing)
379.	Report on water supply by 2011 (form №1 - plumbing)
380.	Reference. Heat consumption 2008-2011
381.	Output Monitoring 2002, 2008-2011
382.	Act of installing equipment of 17.09.2010. Pump set P-50-200 NB. WPS of III elevation, K.Marksa str., 2
383.	Act of installing equipment of 09.09.2009. Pump set MS-30/50. WPS of II elevation, II psychiatric hospital, Barske shose, 6-km, Berezino
384.	Act of installing equipment of 06.12.2007. Pump set FA 30.78 D. SPS №3A, Pyrohova str.
385.	Act of installing equipment of 15.12.2006. Pump set FA 30.78 D. SPS №3A, Pyrohova str.
386.	Act of installing equipment of 08.11.2006. Pump set FA 30.78 D. SPS №1A, H.Uspenskoho str.
387.	Act of installing equipment of 08.12.2005. Pump set FA 30.78 D. SPS №1A, H.Uspenskoho str.
388.	Act of installing equipment of 17.08.2004. Pump set TS 80 H 200/190 Wilo. SPS №4, Nahirna str.
389.	Act of installing equipment of 10.06.2003. Pump set D 3200-33-2. WPS of III elevation, «Vyshenka»
390.	Passport. Electricity meter ACE 6000 №55002653
391.	Passport. Electricity meter ACE 6000 №55002663
392.	Passport. Electricity meter ACE 6000 №55002678
393.	Passport. Electricity meter ACE 6000 №55002688
394.	Passport. Water metering complexes IRKA №2917

395.	Passport. Water metering complexes IRKA №2918
396.	Passport. Water metering complexes IRKA №2922
397.	Passport. Water metering complexes IRKA №3008

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. Oleh Pizniak - General Director of ME VCC «Vinnytsiamiskteploenergo»
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3. Yevgen Petrovskiy - Head of the Department of development and energy management of ME VCC «Vinnytsiamiskteploenergo»
4. Sergiy Sokolovskiy - Deputy Head of the Department of Development and Energy Management of ME VCC «Vinnytsiamiskteploenergo»
5. Andriy Laskavchuk - Deputy Head of the Department of Energy Production of ME VCC «Vinnytsiamiskteploenergo»
6. Petro Stavytskiy - Boiler operator of ME VCC «Vinnytsiamiskteplo-energo»
7. Mikola Komborot - Boiler operator of ME VCC «Vinnytsia-miskteploenergo»
8. Valeriy Dovbaniuk - Technical Director of ME «Vinnytsia-oblteploenergo»
9. Vitaliy Prokopchuk - Head of Energy resources department of ME «Vinnytsiaoblteploenergo»
10. Mykola Svystun - Head of production and operating service of ME «Vinnytsiaoblteploenergo»
11. Yuriy Madiyanskiy - Boiler operator of ME «Vinnytsiaoblteploenergo»
12. Petro Kuzmin - Boiler operator of ME «Vinnytsiaoblteploenergo»
13. Oleh Fedorov – Director of DE «Mayak»
14. Nina Shestopolyuk - Engineer of DE “Mayak”
15. Oleh Shvedov - Chief Engineer of ME «Vinnytsiaoblvodokanal»
16. Yuriy Abashkin - Engineer of PTD of ME «Vinnytsiaoblvodokanal»
17. Korinchuk Kateryna - Scientific researcher of Institute of Engineering Ecology

APPENDIX A: VERIFICATION PROTOCOL

BUREAU VERITAS CERTIFICATION HOLDING SAS

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

DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
Project approvals by Parties involved				
90	Has the DFPs of at least one Party involved, other than the host Party, issued a written project approval when submitting the first verification report to the secretariat for publication in accordance with paragraph 38 of the JI guidelines, at the latest?	DFP of Estonia 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. **CAR 01.** Please provide the Letters of approval of the project.	CAR 01	OK
91	Are all the written project approvals by Parties involved unconditional?	Yes, all the written project approvals by Parties involved are unconditional.	OK	OK
Project implementation				
92	Has the project been implemented in accordance with the PDD regarding which the determination has been deemed final and is so listed on the UNFCCC JI website?	Project includes 89 boiler-houses (including 2 combined heat and power plants CHP-1 and CHP-4) with 307 installed boilers and heat supply stations (HSS) related to them, and 272 km in the 2-pipe calculation of heat distribution networks, 20 water (WPS) and 14 (SPS) sewage pumping stations, 576 km of water supply network, 485 km of sewerage pipes, water intake and sewage treatment facilities.	OK	OK
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		

DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
		reporting period. **CL 01.** Please explain at which stage of the implementation of measures "Implementation of technology for carbon dioxide binding from flue gases". **CL 02.** Please explain at which stage of the implementation of measures "Rehabilitation and optimization of water supply and sewage removal networks". **CL 03.** Please explain at which stage of the implementation of measures "Implementation of control and monitoring systems".	CL 01 CL 02 CL 03	OK OK OK
Compliance with monitoring plan				
94	Did the monitoring occur in accordance with the monitoring plan included in the PDD regarding which the determination has been deemed final and is so listed on the UNFCCC JI website?	Yes, monitoring occurs in accordance with the monitoring plan included in the PDD regarding which the determination has been deemed final and verified changes and is so listed on the UNFCCC JI website.	OK	OK
95 (a)	For calculating the emission reductions or enhancements of net removals, were key factors, e.g. those listed in 23 (b) (i)-(vii) above, influencing the baseline emissions or net removals and the activity level of the project and the emissions or removals as well as risks associated with the project taken into account, as appropriate?	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.	OK	OK
95 (b)	Are data sources used for calculating emission reductions or enhancements of net removals clearly identified, reliable and transparent?	The data sources used for calculating emission reductions are clearly identified, reliable and transparent. Data sources used for calculating emission reductions, such as Boilerhouse records, Statistics of ME VCC "Vinnytsiamiskteploenergo", ME "Vinnytsiaoblteploenergo", DE "Mayak", ME "Vinnytsiaoblvodokanal", SNiP 2-3-79 (1998), State Buildings Norms B.2.6-31:2006, KTM 204		

DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
		Ukraine 244-94, "National inventory report of Ukraine for 1990 – 2010", Orders of the National Environmental Investment Agency of Ukraine are clearly identified, reliable and transparent. **CAR 02.** Internet Links 6 is not working. Please make the appropriate changes. **CAR 03.** Please provide the exact link to the document on the Internet link 7.	 CAR 02 CAR 03	 OK OK
95 (c)	Are emission factors, including default emission factors, if used for calculating the emission reductions or enhancements of net removals, selected by carefully balancing accuracy and reasonableness, and appropriately justified of the choice?	Emission factors, including default emission factors are presented in Section B.2.1 and Annex 1 of the MR. Values of the carbon emission factors for natural gas are set according to the valid "National inventory report of Ukraine for 1990 – 2010.	OK	OK
95 (d)	Is the calculation of emission reductions or enhancements of net removals based on conservative assumptions and the most plausible scenarios in a transparent manner?	The calculation of emission reductions is based on conservative assumptions and the most plausible scenarios in a transparent manner.	OK	OK
Applicable to JI SSC projects only				
96	Is the relevant threshold to be classified as JI SSC project not exceeded during the monitoring period on an annual average basis? If the threshold is exceeded, is the maximum emission reduction level estimated in the PDD for the JI SSC project or the bundle for the monitoring period determined?	N/a	N/a	N/a
Applicable to bundled JI SSC projects only				
97 (a)	Has the composition of the bundle not changed	N/a	N/a	N/a

DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	from that is stated in F-JI-SSCBUNDLE?			
97 (b)	If the determination was conducted on the basis of an overall monitoring plan, have the project participants submitted a common monitoring report?	N/a	N/a	N/a
98	If the monitoring is based on a monitoring plan that provides for overlapping monitoring periods, are the monitoring periods per component of the project clearly specified in the monitoring report? Do the monitoring periods not overlap with those for which verifications were already deemed final in the past?	N/a	N/a	N/a
Revision of monitoring plan				
Applicable only if monitoring plan is revised by project participant				
99 (a)	Did the project participants provide an appropriate justification for the proposed revision?	N/a	N/a	N/a
99 (b)	Does the proposed revision improve the accuracy and/or applicability of information collected compared to the original monitoring plan without changing conformity with the relevant rules and regulations for the establishment of monitoring plans?	N/a	N/a	N/a
Data management				
101 (a)	Is the implementation of data collection procedures in accordance with the monitoring plan, including the quality control and quality assurance procedures?	All data necessary for the CO_2 emission reductions calculation is collected. The scheme of data flow and a description of reporting procedures introduced in Monitoring report. The implementation of data collection procedures are in accordance with the monitoring plan included in the determined PDD.	OK	OK

DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
		Position and roles of person in the GHG data management process are defined in the monitoring report and are implemented on-site.		
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.	OK	OK
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.	OK	OK
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 documents. **CL 04.** Please provide the documents that prove special trainings in June 2012. **CAR 04.** Please give an explanation of abbreviations in Figure 4. **CL 05.** Please provide the a report 2-TP "air" for I-III quarter 2012 on the objects of the project.	 CL 04 CAR 04 CL 05	 OK OK OK

DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
Verification regarding programs of activities (additional elements for assessment)				
102	Is any JPA that has not been added to the JI PoA not verified?	N/A	N/A	N/A
103	Is the verification based on the monitoring reports of all JPAs to be verified?	N/A	N/A	N/A
103	Does the verification ensure the accuracy and conservativeness of the emission reductions or enhancements of removals generated by each JPA?	N/A	N/A	N/A
104	Does the monitoring period not overlap with previous monitoring periods?	N/A	N/A	N/A
105	If the AIE learns of an erroneously included JPA, has the AIE informed the JISC of its findings in writing?	N/A	N/A	N/A
Applicable to sample-based approach only				
106	Does the sampling plan prepared by the AIE: (a) Describe its sample selection, taking into account that: (i) For each verification that uses a sample-based approach, the sample selection shall be sufficiently representative of the JPAs in the JI PoA such extrapolation to all JPAs identified for that verification is reasonable, taking into account differences among the characteristics of JPAs, such as: − The types of JPAs; − The complexity of the applicable technologies and/or measures used; − The geographical location of each JPA; − The amounts of expected emission reductions of the JPAs being verified;	N/A	N/A	N/A

DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	− 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?	N/A	N/A	N/A
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?	N/A	N/A	N/A
109	Is the sampling plan available for submission to the secretariat for the JISC.s ex ante assessment? (Optional)	N/A	N/A	N/A
110	If the AIE learns of a fraudulently included JPA, a fraudulently monitored JPA or an inflated number of emission reductions claimed in a JI PoA, has the AIE informed the JISC of the fraud in writing?	N/A	N/A	N/A

Table 2 Resolution of Corrective Action and Clarification Requests

Draft report clarifications and corrective action requests by validation team	Ref. to checklist question in table 1	Summary of project participant response	Verification team conclusion
CAR 01. Please provide the Letters of approval of the project.	90	Copies of Letters of Approvals from the State Environmental Investment Agency of Ukraine and the ministry of the Environment of Estonia are provided to AIE.	Based on the documentation received, CAR 01 is closed.
CL 01. Please explain at which stage of the implementation of measures "Implementation of technology for carbon dioxide binding from flue gases".	93	Project documentation has been designed and expert opinions for projects of heat networks and IHSS at microdistricts Bazhenova and K.Marksa have been achieved, project of SCADA-system and tender documentation for buying pipes are being developed now.	Based on the information received, CL 01 is closed.
CL 02. Please explain at which stage of the implementation of measures "Rehabilitation and optimization of water supply and sewage removal networks".	93	36.5 km of water supply network and 6.9 km of sewage removal network have been reconstructed during project implementation.	Based on the information received, CL 02 is closed.
CL 03. Please explain at which stage of the implementation of measures "Implementation of control and monitoring systems".	93	Modern units of gas and electricity measurement are installed at project objects, dispatching of small boiler-houses is implemented, heat meters are installed at some water supply objects.	Based on the information received, CL 03
CAR 02. Internet Links 6 is not working. Please make the appropriate changes.	95 (b)	The internet-reference http://oscill.com/files/27082006.pdf is working.	CAR 02 is closed.

CAR 03. Please provide the exact link to the document on the Internet link 7.	95 (b)	Relevant changes are done in MR, version 02.	CAR 03 is closed due to the amendments made in the MR.
CL 04. Please provide the documents that prove special trainings in June 2012.	101 (d)	The special training was held in June 26, 2012. For confirmation the Order No. 22-k on secondment of employees of Institute of Engineering Ecology to Vinnytsia on purpose to organize of the monitoring process of the JI project, including holding the special training involved staff of enterprises that implement the project.	Based on the documentation received, CL 04 is closed.
CAR 04. Please give an explanation of abbreviations in Figure 4.	101 (d)	Relevant changes are done in MR, version 02.	Issue is closed due to the amendments made in the MR.
CL 05. Please provide the a report 2-TP "air" for I-III quarter 2012 on the objects of the project.	101 (d)	Reports #2-tp(air) for I-III qu. of 2012 are provided to AIE.	Based on the documentation received, CL 05 is closed.