



# VERIFICATION REPORT CEP CARBON EMISSIONS PARTNERS S.A.

## VERIFICATION OF THE REDUCTION OF NATURAL GAS LEAKS AT THE GAS DISTRIBUTION NETWORKS OF PJSC "SEVASTOPOLGAZ"

SECOND PERIODIC  
FOR THE PERIOD OF 01/01/2008 – 30/06/2012

REPORT No. UKRAINE-VER/0649/2012

REVISION No. 02

BUREAU VERITAS CERTIFICATION



VERIFICATION REPORT

Date of first issue: 06/09/2012	Organizational unit: Bureau Veritas Certification Holding SAS
Client: CEP Carbon Emissions Partners S.A.	Client ref.: Fabian Knodel

**Summary:**  
 Bureau Veritas Certification has made the 2nd periodic verification for the period of 01/01/2008-30/06/2012 of the "Reduction of natural gas leaks at the gas distribution networks of PJSC "Sevastopolgaz" project of CEP Carbon Emissions Partners S.A. located in the territory of Sevastopol city and territories adjoining the city, 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 (but for the crediting period) 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.

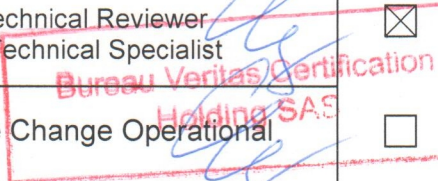
The verification scope is defined as a periodic independent review and ex post determination by the Accredited Entity of the monitored reductions in GHG emissions during defined verification period, and consisted of the following three phases: i) desk review of the monitoring report against project design 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 (CR, 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 accurately and without material errors, omissions, or misstatements, and the emission reductions issued totalize 531 826 of CO<sub>2</sub> 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.: UKRAINE-ver/0649/2012	Subject Group: JI
Project title: Reduction of natural gas leaks at the gas distribution networks of PJSC "Sevastopolgaz"	
Work carried out by: Oleg Skoblyk – Team Leader, Climate Change Lead Verifier Volodymyr Kulish – Team Member, Climate Change Verifier	
Work reviewed by: Ivan Sokolov - Internal Technical Reviewer Oleksandr Kuzmenko – Technical Specialist	
Work approved by: Ivan Sokolov – Climate Change Operational Manager	
Date of this revision: 14/09/2012	Rev. No.: 02
Number of pages: 32	



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## 1 INTRODUCTION

CEP Carbon Emissions Partners S.A. has commissioned Bureau Veritas Certification to verify the emissions reductions of its JI project “Reduction of natural gas leaks at the gas distribution networks of PJSC “Sevastopolgaz” (hereafter called “the project”) in the territory of Sevastopol city and the territories adjoining the city, 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.

The verification covers the period from January 1, 2008 to June 30, 2012.

### 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, corrective and/or forward actions may provide input for improvement of the project monitoring towards reductions in the GHG emissions.

### 1.3 Verification Team

The verification team consists of the following personnel:

Oleg Skoblyk

Bureau Veritas Certification Team Leader, Climate Change Lead Verifier

Volodymyr Kulish

Bureau Veritas Certification Team Member, Climate Change Verifier



This verification report was reviewed by:

Ivan Sokolov  
Bureau Veritas Certification Internal Technical Reviewer

Oleksandr Kuzmenko  
Bureau Veritas Certification Technical Specialist.

## 2 METHODOLOGY

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

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

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

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

### 2.1 Review of Documents

The Monitoring Report (MR) submitted by CEP Carbon Emissions Partners S.A. and additional background documents related to the project design and baseline, i.e. country Law, Project Design Document (PDD), Approved CDM methodology, Determination Report of the project issued by Bureau Veritas Certification Holding SAS, No. UKRAINE-det/0539/2012 dated 20/07/2012, 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 for the period of 01/01/2008 – 30/06/2012, version 01 dated 03/09/2012 and version 02 dated 11/09/2012, and project as described in the determined PDD.



## 2.2 Follow-up Interviews

On 13/09/2012 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 “Sevastopolgaz” and CEP Carbon Emissions Partners S.A. were interviewed (see References). The main topics of the interviews are summarized in Table 1.

**Table 1 Interview topics**

Interviewed organization	Interview topics
PJSC “Sevastopolgaz”	<ul style="list-style-type: none"> <li>➤ Organizational structure</li> <li>➤ Responsibilities and authorities</li> <li>➤ Training of personnel</li> <li>➤ Quality management procedures and technologies</li> <li>➤ Operation of equipment (logging)</li> <li>➤ Metering equipment control</li> <li>➤ Record keeping system, database</li> </ul>
Consultant: CEP Carbon Emissions Partners S.A.	<ul style="list-style-type: none"> <li>➤ Baseline methodology</li> <li>➤ Monitoring plan</li> <li>➤ Monitoring report</li> <li>➤ Deviations from the PDD</li> </ul>

## 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 9 Corrective Action Requests, and 4 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**

There aren't any issues and FARs from previous verifications.

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

The project obtained approval by the Host party (Ukraine) - Letter of Approval No. 2436/23/7 issued by the State Environmental Investment Agency of Ukraine dated 31/08/2012, and written project approval by the party – buyer of the emission reduction units (Switzerland) - Letter of Approval No. J294-0485 issued by the Federal Office for the Environment of Switzerland (FOEN) dated 30/05/2012.

The abovementioned written approvals are unconditional.

The identified areas of concern as to the project approval by the parties involved, project participants' responses and BVC's conclusions are described in Appendix A to this report (refer to CAR 01, CAR 02).

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

PJSC "Sevastopolgaz" is an enterprise that provides transportation and supply of natural gas in Sevastopol city, villages and territories adjoining the city. The company supplies natural gas to industrial enterprises (6), public-service facilities (386), consumers and population (143 503 apartments and individual accommodation units).



The structure of existing tariffs for gas transportation regulated by the state does not take into account the amortization and investment needs of gas distribution enterprises. This leads to a lack of financing for repair works and modernization of gas networks, purchase of proper technological equipment and components, and, as a result, contributes to the increase of methane leaks at PJSC “Sevastopolgaz” facilities.

The project activities consist in the reduction of methane leaks that occur as a result of faulty sealing of GDN components of PJSC “Sevastopolgaz” (gas equipment of GDPs (CGDPs) and gas fittings of gas pipelines).

Within the framework of the JI project in order to repair methane leaks at gas equipment and gas fittings two types of repairs are applied:

1. Complete replacement of old gas equipment and gas fittings with new units.
2. Replacement of sealing elements with the use of modern sealing materials, changing the common practice of maintenance and repair on the basis of paronite packing and gaskets made of cotton fibers with fatty treatment and asbestic and graphite filler.

The existing practice of maintenance and repair on the basis of paronite packing and gaskets made of cotton fibers with fatty treatment and asbestic and graphite filler does not give a long-lasting effect of methane leak reduction.

As a result of JI project activities, in addition to methane leak reductions, technical losses of natural gas decreased, a contribution was made to the improvement of environmental situation, and the risk of accidents and explosions was reduced.

According to the PDD version 03 the project boundary includes leak spots caused by seal failure of GDP (CGDP) equipment, gas fittings, flanged and threaded connections of PJSC “Sevastopolgaz” gas distribution networks. The project boundary includes GDPs (CGDPs) (70 units) and gas fittings (2 886 units). During the reporting monitoring period gas equipment of 28 GDPs (CGDPs) and 1 155 gas fitting units were repaired (replaced) in the framework of the project. In this monitoring period PJSC “Sevastopolgaz” finished repairs of all GDP (CGDP) gas equipment units and gas fittings included in the JI project boundary. The number of repaired (replaced) GDP (CGDP) gas equipment units and repaired (replaced) gas fittings of PJSC “Sevastopolgaz” gas distribution pipelines under the project is provided in Table 2 of this report:



**Table 2 Status of the project implementation**

Period	Number of GDPs (CGDPs) where gas equipment was repaired (replaced)	Number of repaired (replaced) gas fittings at gas distribution networks
2008	11	434
2009	17	721
2010	-	-
2011	-	-
January 2012 – June 2012	-	-
<b>Total</b>	<b>28</b>	<b>1155</b>

Project activities include:

- Implementation of Purposeful Examination and Technical Maintenance (PETM) of GDN components (gas equipment of GDPs (CGDPs) and gas fittings);
- Detection of methane leaks: leak monitoring system at all GDN components (gas equipment of GDPs (CGDPs), gas fittings) that are included in the project boundary including repaired methane leaks (elements of GDN repaired as part of the project activity);
- Repair of all leaks detected: repair of leaking GDN components within the project boundary varied from replacement of sealing elements by using new and modern materials to replacement of gas equipment units and gas fittings with new and modern ones.

Project activities of the current monitoring period (January 1, 2008 – June 30, 2012) also involve Purposeful Examination and Technical Maintenance (PETM) of all GDP (CGDP) gas equipment and gas fittings that were repaired (replaced) in addition to scheduled repairs in the whole JI project life.

According to the Monitoring Plan provided in the PDD Version 03, current repairs of gas equipment are carried out once a year, and maintenance is performed once per half-year.

Results of measurements of methane leaks at repaired (replaced) GDP (CGDP) equipment and gas fittings of PJSC “Sevastopolgaz” gas pipelines do not exceed the leaks that would have occurred in the absence of the project.

The project was in operation for the entire monitoring period – from 01/01/2008 to 30/06/2012.



The identified areas of concern as to the project implementation, project participants' responses and BVC's conclusions are described in Appendix A to this report (refer to CAR 03, CL 01, CL 02).

### **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 sequence number of GDN component, Global Warming Potential of methane, number of activity (replacement/repair) at GDN component after the presence of APLNG was determined at such component, average mass fraction of methane in the natural gas, natural gas leak factor from GDN component in CLS, natural gas leak factor that corresponds to APLNG for GDN component, time of operation of GDN component under pressure from the beginning of monitoring period "y" to implementation of project activities (repair / replacement) that resulted in the repair of APLNG at such component, time of operation of GDN component under pressure from the moment of implementation of project activities (repair / replacement) that resulted in the repair of APLNG at such component to the end of the monitoring period "y", experience in implementing activities provided by the project, current practice that exists in this field in Ukraine, financial costs and background, legislation, 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 metering equipment – FP-12 gas leak indicator, information provided by equipment producers, data of the enterprise, "Methodology for calculation of greenhouse gas emission reductions achieved by above-standard natural gas leak repair at the gas distribution networks" (registration number UkrNTI 0112U00A816 dated 2012) and IPCC 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 monitoring periods per component of the project are clearly specified in the monitoring report and do not overlap with those for which verifications were already deemed final in the past.



The identified areas of concern as to the compliance of the monitoring plan with the monitoring methodology, project participants' responses and BVC's conclusions are described in Appendix A to this report (refer to CAR 04, CAR 05, CAR 06, CAR 07).

### **3.5 Revision of monitoring plan (99-100)**

Not applicable.

### **3.6 Data management (101)**

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

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

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

According to the current Law "On metrology and metrological activity", all metering equipment in Ukraine shall meet the specified requirements of relevant standards and is subject to periodic verification. Calibration of metering equipment is carried out in accordance with the national standards.

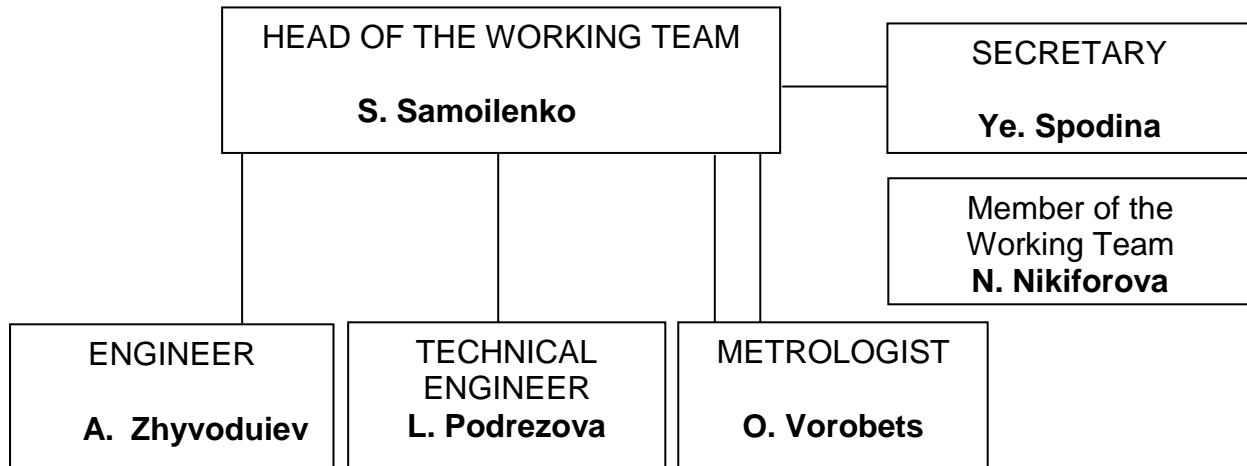
Equipment that requires calibration and is used in the monitoring of methane leaks:

- FP-12 gas leak indicator; Intercalibration period is 1 year.;

As a result of verification (calibration) a certificate confirming the technical serviceability of an equipment unit is issued.

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

Coordination of activities of all departments and services of PJSC "Sevastopolgaz" relating to the JI project implementation is carried out by the Working Team that was created by the Order of PJSC "Sevastopolgaz" management dated 04/03/2005. New composition of the Working team was approved by the head of PJSC "Sevastopolgaz" management board in the order No. 272 dated 16/12/2011. The structure of the Working Team is shown in Figure 1.



**Figure 1 Structure of the Working Team**

A. Samoilenko is the leader of the Working Team responsible for formation of the plan of measures in the JI project and determination of the necessary resources.

A. Zhyvoduiev is an engineer of the Working Team responsible for organization of measurements and leak repair at equipment of gas distribution networks.

L. Podrezova is the technical engineer of the Working Team responsible for collection of information and performance of all the necessary calculations as provided in the monitoring plan of the JI project.

Ye. Spodina is Working Team secretary responsible for storage, archiving and backuping of data based on the results of measurements and calculations as well as documents relating to the joint implementation project.

O. Vorobets is metrologist of the Working Team, who ensures the availability of the calibrated metering devices while implementing the JI project.

N. Nikiforova is a Member of the Working Team responsible for natural gas sale accounting.

All necessary data concerning GHG emission reduction monitoring is archived in paper and/or electronic form and kept till the end of the crediting period and for two years after the latest transaction with emission reduction units.

The Monitoring Report version 02 provides sufficient information on duties assigned, responsibility and authorities concerning implementation and undertaking of monitoring procedures, including data management. The verification team confirms the efficiency of the existing management and



operational systems and considers them appropriate for reliable project monitoring.

The identified areas of concern as to data management, project participants' responses and BVC's conclusions are described in Appendix A to this report (refer to CAR 08, CAR 09, CL 03, CL 04).

### **3.7 Verification regarding programmes of activities (102-110)**

Not applicable.

## **4 VERIFICATION OPINION**

Bureau Veritas Certification has performed the 2nd periodic verification of the "Reduction of natural gas leaks at the gas distribution networks of PJSC "Sevastopolgaz" Project for the period from January 1, 2008 to June 30, 2012, 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 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 CEP Carbon Emissions Partners S.A. is responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions of the project on the basis set out within the project Monitoring Plan indicated in the final PDD version 03. The development and maintenance of records and reporting procedures in accordance with that plan, including the calculation and determination of GHG emission reductions from the project, is the responsibility of the management of the project.

Bureau Veritas Certification verified the Project Monitoring Report version 02 for the reporting period of 01/01/2008 - 30/06/2012 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.

Emission reductions achieved by the project for the period from 01/01/2008 to 30/06/2012 do not differ significantly from the amount



predicted for the same period in the determined PDD. Emission reductions predicted in the determined PDD version 03 and actual emission reductions stated in the MR version 02 are provided in Table 3 of this report.

**Table 3 Emission reductions predicted in the determined PDD version 03 and actual emission reductions stated in the MR version 02**

Period	Estimated GHG emission reductions stated in the determined PDD, t CO <sub>2e</sub>	Actual GHG emission reductions stated in the Monitoring report, t CO <sub>2e</sub>
2008	99 952	88 897
2009	133 269	112 889
2010	133 269	132 235
2011	133 269	132 235
01/01/2012-30/06/2012	66 634	65 570
Total	566 393	531 826

The difference is explained by the fact that at the time of PDD writing it was impossible to obtain accurate data necessary for calculation of GHG emission reductions for the current monitoring period. To calculate the GHG emission reductions for the current monitoring period all the necessary information was given and this provided an opportunity to accurately determine the amount of emissions in the baseline and project scenarios. Amount of emission reductions for the period 01/01/2012-30/06/2012 provided in the determined PDD was calculated by dividing the total annual amount of emission reductions stated in the PDD by 12 (12 months) and multiplying by 6 (6 months) .

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

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

In the period from 01/01/2008 to 31/12/2008

Baseline emissions	:	119 116	tonnes of CO <sub>2</sub> equivalent.
Project emissions	:	30 219	tonnes of CO <sub>2</sub> equivalent.
Emission Reductions	:	88 897	tonnes of CO <sub>2</sub> equivalent.

In the period from 01/01/2009 to 31/12/2009

Baseline emissions	:	143 108	tonnes of CO <sub>2</sub> equivalent.
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Project emissions : 30 219 tonnes of CO<sub>2</sub> equivalent.  
Emission Reductions : 112 889 tonnes of CO<sub>2</sub> equivalent.

In the period from 01/01/2010 to 31/12/2010

Baseline emissions : 162 454 tonnes of CO<sub>2</sub> equivalent.  
Project emissions : 30 219 tonnes of CO<sub>2</sub> equivalent.  
Emission Reductions : 132 235 tonnes of CO<sub>2</sub> equivalent.

In the period from 01/01/2011 to 31/12/2011

Baseline emissions : 162 454 tonnes of CO<sub>2</sub> equivalent.  
Project emissions : 30 219 tonnes of CO<sub>2</sub> equivalent.  
Emission Reductions : 132 235 tonnes of CO<sub>2</sub> equivalent.

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

Baseline emissions : 80 554 tonnes of CO<sub>2</sub> equivalent.  
Project emissions : 14 984 tonnes of CO<sub>2</sub> equivalent.  
Emission Reductions : 65 570 tonnes of CO<sub>2</sub> equivalent.

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

Baseline emissions : 667 686 tonnes of CO<sub>2</sub> equivalent.  
Project emissions : 135 860 tonnes of CO<sub>2</sub> equivalent.  
Emission Reductions : 531 826 tonnes of CO<sub>2</sub> equivalent.



## 5 REFERENCES

### Category 1 Documents:

Documents provided by the project participants that relate directly to the GHG components of the project.

/1/	The PDD of the JI project “Reduction of natural gas leaks at the gas distribution networks of PJSC “Sevastopolgaz”, version 03, as of 28/06/2012
/2/	Monitoring Report of the JI project “Reduction of natural gas leaks at the gas distribution networks of PJSC “Sevastopolgaz” for the period of 01/01/2008-30/06/2012, version 01, as of 03/09/2012
/3/	Monitoring Report of the JI project “Reduction of natural gas leaks at the gas distribution networks of PJSC “Sevastopolgaz” for the period of 01/01/2008-30/06/2012, version 02, as of 11/09/2012
/4/	Annex 1 “Registry of gas distribution points and gas fittings included into the project boundary of the JI project “Reduction of natural gas leaks at the gas distribution networks of PJSC “Sevastopolgaz”
/5/	Annex 2 “Registry of repairs of gas distribution points and gas fittings included into the project boundary of the JI project “Reduction of natural gas leaks at the gas distribution networks of PJSC “Sevastopolgaz” and “Registry of locations of GDN components included into the project boundary, under the pressure”
/6/	Determination Report of the JI project “Reduction of natural gas leaks at the gas distribution networks of PJSC “Sevastopolgaz”, issued by Bureau Veritas Certification Holding SAS, No. UKRAINE-det/0539/2012 dated 20/07/2012
/7/	Letter of Approval No. 2435/23/7 issued by the State Environmental Investment Agency of Ukraine as of 31/08/2012
/8/	Letter of Approval No. J294-0485 issued by the Federal Office for the Environment (FOEN) of Switzerland dated 30/05/2012.
/9/	Methodology for calculation of greenhouse gas emission reductions achieved by above-standard natural gas leak repair at gas distribution networks" that was developed by the Institute of Gas of the National Academy of Sciences of Ukraine (registration number UkrNTI 0112U00A816 dated 2012)



**Category 2 Documents:**

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

/1/	Order on creation of a Working Team on control over natural gas leaks at shut-off valves and other gas distribution network equipment dated 04/03/2005
/2/	Order on changes in the composition of the Working Team on natural gas leak control at gas distribution network equipment and leak repair in the framework of the JI project No. 272 dated 16/12/2011
/3/	Certificate of gas equipment acceptance after repair (CGDP replacement) dated 10/06/2011
/4/	Certificate of gas equipment acceptance after repair (CGDP replacement) dated 30/06/2009
/5/	Certificate of gas equipment acceptance after repair (CGDP replacement) dated 30/06/2011
/6/	Certificate of gas equipment acceptance after repair (CGDP replacement) dated 03/08/2011
/7/	Certificate of gas equipment acceptance after repair (CGDP replacement) dated 22/12/2009
/8/	Certificate of gas equipment acceptance after repair (CGDP replacement) dated 30/11/2011
/9/	Certificate of gas equipment acceptance after repair (replacement of RD-50 CGDP with RDH-50 CGDP) dated 31/12/2010
/10/	Certificate of gas equipment acceptance after repair (replacement of RD-50 CGDP with RDH-50 CGDP) dated 31/12/2010
/11/	Certificate of gas equipment acceptance after repair (CGDP replacement) dated 29/09/2011
/12/	Passport of FP 12 leak detector
/13/	Calibration certificate of the working measuring instrument No.15/2-13/1-459-11 dated 10/08/2011
/14/	Calibration certificate of the working measuring instrument (FP 12 gas analyzer) No.15/2-13/1-152-12 dated 26/03/2012
/15/	Calibration certificate of the working measuring instrument No. 462 (Mine interferometer ShY-11) dated 26/08/2008
/16/	Calibration certificate of the working measuring instrument No. 741 (Mine interferometer ShY-11) dated 28/11/2008
/17/	Calibration certificate of the working measuring instrument No. 404 (Mine interferometer ShY-11) dated 31/07/2008
/18/	Calibration certificate of the working measuring instrument No. 740 (Mine interferometer ShY-11) dated 28/11/2008
/19/	Calibration certificate of the working measuring instrument No. 688 (Mine interferometer ShY-11) dated 17/11/2008
/20/	Calibration certificate of the working measuring instrument No. 231 (Mine interferometer ShY-11) dated 23/04/2008
/21/	Calibration certificate of the working measuring instrument No. 738 (Mine interferometer ShY-11) dated 28/11/2008
/22/	Calibration certificate of the working measuring instrument No. 306 (Mine




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	interferometer ShY-11) dated 16/07/2009
/23/	Calibration certificate of the working measuring instrument No. 359 (Mine interferometer ShY-11) dated 13/07/2009
/24/	Calibration certificate of the working measuring instrument No. 362 (Mine interferometer ShY-11) dated 13/07/2009
/25/	Calibration certificate of the working measuring instrument No. 15/2-549 (Mine interferometer ShY-11) dated 09/10/2009
/26/	Calibration certificate of the working measuring instrument No. 117 (Mine interferometer ShY-11) dated 20/03/2009
/27/	Calibration certificate of the working measuring instrument No. 15/2-13-592-09 (Mine interferometer ShY-11) dated 12/11/2009
/28/	Calibration certificate of the working measuring instrument No. 360 (Mine interferometer ShY-11) dated 13/07/2009
/29/	Calibration certificate of the working measuring instrument No. 361 (Mine interferometer ShY-11) dated 13/07/2009
/30/	Calibration certificate of the working measuring instrument No. 15/2-13-594-09 (Mine interferometer ShY-11) dated 12/11/2009
/31/	Calibration certificate of the working measuring instrument No. 15/2-13-593-09 (Mine interferometer ShY-11) dated 12/11/2009
/32/	Calibration certificate of the working measuring instrument No. 15/2-426 (Mine interferometer ShY-11) dated 25/08/2009
/33/	Calibration certificate of the working measuring instrument No. 15/2-13-638-09 (Mine interferometer ShY-11) dated 12/11/2009
/34/	Calibration certificate of the working measuring instrument No. 15/2-13/1-654-10 (Mine interferometer ShY-11) dated 22/11/2010
/35/	Calibration certificate of the working measuring instrument No. 15/2-13/1-265-10 (Mine interferometer ShY-11) dated 05/05/2010
/36/	Calibration certificate of the working measuring instrument No. 15/2-13/1-210-10 (Mine interferometer ShY-11) dated 12/04/2010
/37/	Calibration certificate of the working measuring instrument No. 15/2-13/1-045-10 (Mine interferometer ShY-11) dated 26/01/2010
/38/	Calibration certificate of the working measuring instrument No. 15/2-13/1-485-10 (Mine interferometer ShY-11) dated 01/09/2010
/39/	Calibration certificate of the working measuring instrument No. 15/2-13/1-580-11 (Mine interferometer ShY-11) dated 28/10/2011
/40/	Calibration certificate of the working measuring instrument No. 15/2-13/1-119-11 (Mine interferometer ShY-11) dated 02/03/2011
/41/	Calibration certificate of the working measuring instrument No. 15/2-13/1-213-11 (Mine interferometer ShY-11) dated 11/05/2011
/42/	Calibration certificate of the working measuring instrument No. 15/2-13/1-22-11 (Mine interferometer ShY-11) dated 12/01/2011
/43/	Calibration certificate of the working measuring instrument No. 15/2-13/1-053-11 (Mine interferometer ShY-11) dated 18/01/2011
/44/	Calibration certificate of the working measuring instrument No. 15/2-13/1-054-11 (Mine interferometer ShY-11) dated 18/01/2011
/45/	The certificate of transferring obsolete pipelines in a category of pipelines




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	suitable to use dated 30/09/2010
/46/	Certificate on the assessment of technical condition dated 28/09/2010
/47/	Certificate on the assessment of technical condition dated 31/03/2011
/48/	Certificate on work performed (replacement of GDP (CGDP) gas equipment) dated 27/03/2008
/49/	Certificate on work performed (replacement of GDP (CGDP) gas equipment) dated 10/07/2008
/50/	Certificate on work performed (replacement of GDP (CGDP) gas equipment) dated 16/03/2009
/51/	Certificate on work performed (replacement of GDP (CGDP) gas equipment) dated 23/09/2009
/52/	Certificate on work performed (replacement of GDP (CGDP) gas equipment) dated 09/03/2010
/53/	Certificate on work performed (replacement of GDP (CGDP) gas equipment) dated 14/09/2010
/54/	Certificate on work performed (replacement of GDP (CGDP) gas equipment) dated 02/03/2010
/55/	Certificate on work performed (replacement of GDP (CGDP) gas equipment) dated 24/09/2010
/56/	Certificate on work performed (replacement of GDP (CGDP) gas equipment) dated 22/03/2011
/57/	Certificate on work performed (replacement of GDP (CGDP) gas equipment) dated 22/09/2011
/58/	Certificate on work performed (replacement of GDP (CGDP) gas equipment) dated 29/03/2012
/59/	Passport of mine interferometer ShY-11
/60/	Photos of mine interferometer ShY-11
/61/	Photos of measurement works
/62/	Photos of installed equipment

**Persons interviewed:**

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

	<b>Name</b>	<b>Organization</b>	<b>Position</b>
/1/	S. Samoilenko	PJSC "Sevastopolgaz"	Chief Engineer
/2/	Ye. Spodina	PJSC "Sevastopolgaz"	Referent
/3/	L. Podriezova	PJSC "Sevastopolgaz"	Head of PTO
/4/	A. Zhyvoduiev	PJSC "Sevastopolgaz"	Head SENHiS



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/5/	O. Vorobets	PJSC "Sevastopolgaz"	Head STsOBSh
/6/	N. Nikiforova	PJSC "Sevastopolgaz"	Head of SORH
/7/	S. Repinetskyi	"CEP" LLC	Consultant of CEP Carbon Emissions Partners S.A.



## VERIFICATION REPORT

**APPENDIX A: COMPANY PROJECT VERIFICATION PROTOCOL  
BUREAU VERITAS CERTIFICATION HOLDING SAS**
**JI PROJECT VERIFICATION PROTOCOL**
**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
<b>Project approvals by Parties involved</b>				
90	Has the NFPs 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?	The project has been approved by both parties. The Letters of Approval were presented to the verification team. <b>CAR 01.</b> Information relating to the Letters of Endorsement in Section A.2. of the MR is irrelevant. <b>CAR 02.</b> Please, state the date of the latest version of the Determination report.	<b>CAR 01</b> <b>CAR 02</b>	OK 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
<b>Project implementation</b>				
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?	Yes, the project has been implemented in accordance with the PDD, which is listed on the UNFCCC JI website. According to the PDD version 03 the project boundary includes leak spots caused by seal failure of GDP (CGDP) equipment, gas fittings, flanged and threaded connections of PJSC "Sevastopolgaz" gas distribution networks. The project boundary includes GDPs (CGDPs) (70 units) and gas fittings (2 886 units). During the reporting monitoring period gas equipment	<b>CL 01</b> <b>CL 02</b> <b>CAR 03</b>	OK OK OK



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DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
		<p>of 28 GDPs (CGDPs) and 1155 gas fitting units were repaired (replaced).            Project activities of the current monitoring period (January 1, 2008 – June 30, 2012) also involve Purposeful Examination and Technical Maintenance (PETM) of all GDP (CGDP) gas equipment and gas fittings that were repaired (replaced) in addition to scheduled repairs in the whole JI project life.            According to the Monitoring Plan provided in the PDD Version 03, current repairs of gas equipment are carried out once a year, and maintenance is performed once per half-year.</p> <p><b>CL 01.</b> Please, provide information whether methane leaks from the repaired (replaced) gas equipment of GDPs (CGDPs) and gas armature of gas pipelines of PJSC “Sevastopolgaz” exceed the leaks that were measured after the first repair of the equipment or not.</p> <p><b>CL 02.</b> Please, provide the reference to the Guidance on criteria for baseline setting and monitoring, version 03 that was used to set the baseline.</p> <p><b>CAR 03.</b> Information in Section A.3. relating to the project implementation is not sufficient. Please, provide a more detailed description of project activities.</p>		
93	What is the status of operation of the project during the monitoring period?	The Project has been operational for the whole monitoring period, which is 01/01/2008-30/06/2012.	OK	OK
<b>Compliance with monitoring plan</b>				
94	Did the monitoring occur in accordance with	Yes, the monitoring was carried out in accordance with	<b>CAR 04</b>	OK



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## VERIFICATION REPORT

DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	the monitoring plan included in the PDD regarding which the determination has been deemed final and is so listed on the UNFCCC JI website?	<p>the monitoring plan included in the PDD regarding which the determination has been deemed final and is so listed on the UNFCCC JI website.</p> <p>The only deviation from the monitoring plan included in the PDD is the refusal of the working team to create a Registry of monitoring of state of GDN components where ASNGL were repaired because of absence of repeated leaks. This didn't make any impact on the results obtained.</p> <p><b>CAR 04.</b> Please, in Section A.8. of the MR provide information on the difference in the number of installed / replaced equipment units in the PDD and MR.</p>		
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?	For calculating the emission reductions key factors, such as sequence number of GDN component, Global Warming Potential of methane, number of activity (replacement/repair) at GDN component after the presence of APLNG was determined at such component, average mass fraction of methane in the natural gas, natural gas leak factor from GDN component in CLS, natural gas leak factor that corresponds to APLNG for GDN component, time of operation of GDN component under pressure from the beginning of monitoring period "y" to implementation of project activities (repair / replacement) that resulted in the repair of APLNG at such component, time of operation of GDN component under pressure from the moment of implementation of project activities (repair / replacement) that resulted in the repair of APLNG at	OK	OK



## VERIFICATION REPORT

DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
		such component to the end of the monitoring period "y", experience in implementing activities provided by the project, current practice that exists in this field in Ukraine, financial costs and background, legislation, 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.		
95 (b)	Are data sources used for calculating emission reductions or enhancements of net removals clearly identified, reliable and transparent?	<p>Yes, data sources used for calculating emission reductions or enhancements of net removals are clearly identified, reliable and transparent</p> <p><b>CAR 05.</b> In Section B.6. the QC procedure column contains incorrect information about global warming potential.</p> <p><b>CAR 06.</b> In Table 4, Section B.2.2. of the MR under the heading "Variable Data" add the required indexing for <math>K_{i'h}^g</math> and <math>K_{i'}^n</math>.</p> <p><b>CAR 07.</b> In Section B.6. of the MR an incorrect data source for <math>GWP_{CH_4}</math> parameter is stated. Please, provide the correct information.</p>	<p><b>CAR 05</b></p> <p><b>CAR 06</b></p> <p><b>CAR 07</b></p>	<p>OK</p> <p>OK</p> <p>OK</p>





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DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
95 (c)	Are emission factors, including default emission factors, if used for calculating the emission reductions or enhancements of net removals, selected by carefully balancing accuracy and reasonableness, and appropriately justified of the choice?	Yes, emission factors, including default emission factors, that are used for calculating the emission reductions or enhancements of net removals, are selected by carefully balancing accuracy and reasonableness, and appropriately justified of the choice.	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
<b>Applicable to JI SSC projects only</b>				
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
<b>Applicable to bundled JI SSC projects only</b>				
97 (a)	Has the composition of the bundle not changed from that is stated in F-JI-SSCBUNDLE?	N/a	N/a	N/a
97 (b)	If the determination was conducted on the	N/a	N/a	N/a



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DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	basis of an overall monitoring plan, have the project participants submitted a common monitoring report?			
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
<b>Revision of monitoring plan</b>				
<b>Applicable only if monitoring plan is revised by project participant</b>				
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
<b>Data management</b>				
101 (a)	Is the implementation of data collection procedures in accordance with the monitoring plan, including the quality control and quality assurance procedures?	<b>CAR 08.</b> The final date of storage of project documents in the monitoring reports for the periods 2005-2007 and 2008-2012 differ from each other. Please, provide a single correct date. <b>CAR 09.</b> In Figure 4 of the MR O. Vorobets is	<b>CAR 08</b> <b>CAR 09</b>	OK OK



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DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
		mentioned twice, while N. Nikiforova is not included in the working team structure.		
101 (b)	Is the function of the monitoring equipment, including its calibration status, is in order?	Yes, the function of the monitoring equipment, including its calibration status is in order. <b>CL 03.</b> Provide a reference to the Law of Ukraine "On metrology and metrological activity" in Section B.1.2.	<b>CL 03</b>	OK
101 (c)	Are the evidence and records used for the monitoring maintained in a traceable manner?	Yes, the evidence and records used for the monitoring are maintained in a traceable manner.	OK	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 monitoring plan. The Verification Team confirms the effectiveness of existing management system and operating system and considers them suitable for reliable monitoring of the project. <b>CL 04.</b> Please, check the numbering of Tables and Figures in the MR.	<b>CL 04</b>	OK
<b>Verification regarding programs of activities (additional elements for assessment)</b>				
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	N/a	N/a	N/a



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## VERIFICATION REPORT

DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	previous monitoring periods?			
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
<b>Applicable to sample-based approach only</b>				
106	<p>Does the sampling plan prepared by the AIE:</p> <p>(a) Describe its sample selection, taking into account that:</p> <p>(i) For each verification that uses a sample-based approach, the sample selection shall be sufficiently representative of the JPAs in the JI Project. Such extrapolation to all JPAs identified for that verification is reasonable, taking into account differences among the characteristics of JPAs, such as:</p> <ul style="list-style-type: none"> <li>- The types of JPAs;</li> <li>- The complexity of the applicable technologies and/or measures used;</li> <li>- The geographical location of each JPA;</li> <li>- The amounts of expected emission reductions of the JPAs being verified;</li> <li>- The number of JPAs for which emission reductions are being verified;</li> <li>- The length of monitoring periods of the</li> </ul>	N/a	N/a	N/a



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DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	JPA's 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 JPA's, 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 JPA's, 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



## VERIFICATION REPORT

**TABLE 2 RESOLUTION OF CLARIFICATION AND CORRECTIVE ACTION 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
<b>CAR 01.</b> Information relating to the Letters of Endorsement in Section A.2. of the MR is irrelevant.	90	Irrelevant information was deleted. Refer to Section A.2 of the MR version 02.	The issue is closed as irrelevant information was deleted.
<b>CAR 02.</b> Please, state the date of the latest version of the Determination report.	90	The JI project "Reduction of natural gas leaks at the gas distribution networks of PJSC "Sevastopolgaz" was determined by Bureau Veritas Certification Holding SAS, determination report No. UKRAINE-det/0539/2012 dated 20/07/2012	The necessary corrections were made in the MR version 02, the issue is closed.
<b>CAR 03.</b> Information in Section A.3. relating to the project implementation is not sufficient. Please, provide a more detailed description of project activities.	92	<p>Within the framework of the JI project in order to repair methane leaks at gas equipment and gas fittings two types of repairs are applied:</p> <ol style="list-style-type: none"> <li>1. Complete replacement of old gas equipment and gas fittings with new units.</li> <li>2. Replacement of sealing elements with the use of modern sealing materials, changing the common practice of maintenance and repair on the basis of paronite packing and gaskets made of cotton fibers with fatty treatment and asbestic and graphite filler.</li> </ol>	The information was provided, the issue is closed.



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<b>CAR 04.</b> Please, in Section A.8. of the MR provide information on the difference in the number of installed / replaced equipment units in the PDD and MR.	94	There is some difference in the number of installed / replaced equipment units in the PDD and MR. This was caused by the fact at the PDD development stage preliminary values were provided, and at the Monitoring report development stage accurate number of equipment units to be replaced/repared was provided.	The issue is closed as relevant corrections were made.
<b>CAR 05.</b> In Section B.6. the QC procedure column contains incorrect information about global warming potential.	95 (b)	If global warming potential for methane changes, the baseline and the project scenario will be recalculated based on the new values	The issue is closed as relevant corrections were made.
<b>CAR 06.</b> In Table 4, Section B.2.2. of the MR under the heading "Variable Data" add the required indexing for $K_{i'h}^g$ and $K_{i''}^n$ .	95 (b)	Relevant indexes were added. Refer to the MR version 02.	The issue is closed as the indexes were added.
<b>CAR 07.</b> In Section B.6. of the MR an incorrect data source for $GWP_{CH_4}$ parameter is stated. Please, provide the correct information.	95 (b)	IPCC Second Assessment Report: Climate Change 1995 (SAR) and approved COP. GWP for methane values are provided at UNFCCC web-site.	The issue is closed as relevant changes were made.
<b>CAR 08.</b> The final date of storage of project documents in the monitoring reports for the periods 2005-2007 and 2008-2012 differ from each other. Please, provide a single correct date.	101 (a)	Project data and documents will be processed and achieved in paper and / or electronic form and will be stored until 31/12/2019.	Relevant corrections were made. The issue is closed.
<b>CAR 09.</b> In Figure 4 of the MR O. Vorobets is mentioned twice, while N. Nikiforova is not included in the working team structure.	101 (a)	Relevant corrections were made. Refer to Section B.2.1 of the MR version 02.	The issue is closed as relevant corrections were made.



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<b>CL 01.</b> Please, provide information whether methane leaks from the repaired (replaced) gas equipment of GDPs (CGDPs) and gas armature of gas pipelines of PJSC "Sevastopolgaz" exceed the leaks that were measured after the first repair of the equipment or not.	92	The methane leaks from the repaired (replaced) gas equipment of GDPs (CGDPs) and gas armature of gas pipelines of PJSC "Sevastopolgaz" do not exceed the leaks that were measured after the first repair of the equipment.	Clarification was accepted. The issue is closed.
<b>CL 02.</b> Please, provide the reference to the Guidance on criteria for baseline setting and monitoring, version 03 that was used to set the baseline.	92	Relevant reference was provided. Refer to Section A.5.1. of the MR version 02.	The issue is closed as relevant reference was provided.
<b>CL 03.</b> Provide a reference to the Law of Ukraine "On metrology and metrological activity" in Section B.1.2.	101 (b)	Relevant reference is provided. Refer to the MR version 02.	The issue is closed as relevant reference was provided.
<b>CL 04.</b> Please, check the numbering of Tables and Figures in the MR.	101 (d)	The numbering was checked. The corrections were made.	The issue is closed as relevant corrections were made.