



VERIFICATION REPORT CJSC “NATIONAL CARBON SEQUESTRATION FOUNDATION”

VERIFICATION OF THE EFFECTIVE UTILIZATION OF THE BLAST- FURNACE GAS AND WASTE HEAT AT THE JSC “ZAPORIZHSTAL”, UKRAINE

for the period 01/07/2011 – 29/02/2012

REPORT No. UKRAINE-VER/0410/2012

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BUREAU VERITAS CERTIFICATION



VERIFICATION REPORT

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Client: CJSC "National Carbon Sequestration Foundation"	Client ref.: Yuriy Fedorov

Summary:

Bureau Veritas Certification has made the periodic verification for the period from 01/07/2011 to 29/02/2012 of the "Effective Utilization of the Blast-Furnace Gas and Waste Heat at the JSC "Zaporizhstal" Ukraine", ITL project ID UA1000222, the project of CJSC "National Carbon Sequestration Foundation" located in city of Zaporizhzhya, Zaporizhzhya region, Ukraine, and applying the JI specific approach, on the basis of UNFCCC criteria for the JI, as well as criteria given to provide for consistent project operations, monitoring and reporting. UNFCCC criteria refer to Article 6 of the Kyoto Protocol, the JI rules and modalities and the subsequent decisions by the JI Supervisory Committee, as well as the host country criteria.

The verification scope is defined as a periodic independent review and ex post determination by the Accredited Entity of the monitored reductions in GHG emissions during defined verification period, and consisted of the following three phases: i) desk review of the 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 per determined changes. Installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately. The monitoring system is in place and the project is generating GHG emission reductions. The GHG emission reduction is calculated accurately and without material errors, omissions, or misstatements, and the ERUs issued totalize 22 189 tonnes of CO₂ equivalent for the monitoring period from 01/07/2011 to 29/02/2012.

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/0410/2012	Subject Group: JI	
Project title: Effective utilization of the blast-furnace gas and waste heat at the JSC "Zaporizhstal", Ukraine		
Work carried out by: Team Leader : Vyacheslav Yeriomin Team Member : Vladimir Kulish		
Work reviewed by: Ivan Sokolov - Internal Technical Reviewer		
Work approved by: Ivan Sokolov - Operational Manager <i>Bureau Veritas Certification Holding SAS</i>		
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1 INTRODUCTION

CJSC “National Carbon Sequestration Foundation” has commissioned Bureau Veritas Certification to verify the emissions reductions of its JI project project “Effective Utilization of the Blast-Furnace Gas and Waste Heat at the JSC “Zaporizhstal” Ukraine” (hereafter called “the project”) at city of Zaporizhzhya, Zaporizhzhya 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.

The verification covers the period from 01/07/2011 to 29/02/2012.

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

Verification scope is defined as an independent and objective review and ex post determination by the Accredited Independent Entity of the monitored reductions in GHG emissions. The verification is based on the submitted monitoring report and the determined project design document including the project’s baseline study and monitoring plan and other relevant documents. The information in these documents is reviewed against Kyoto Protocol requirements, UNFCCC rules and associated interpretations.

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

1.3 Verification Team

The verification team consists of the following personnel:

Vyacheslav Yeriomin

Bureau Veritas Certification Team Leader, Climate Change Verifier



Vladimir Kulish
Bureau Veritas Certification Climate Change Verifier

This verification report was reviewed by:

Ivan Sokolov
Bureau Veritas Certification, Internal Technical Reviewer

2 METHODOLOGY

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

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

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

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

2.1 Review of Documents

The Monitoring Report (MR) submitted by CJSC “National Carbon Sequestration Foundation” 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 01.1 of 10/02/2012, 01.2 of 02/04/2012 and version 02.1 of 29/05/2012 and project as described in the determined PDD.

2.2 Follow-up Interviews

On 27/04/2012 Bureau Veritas Certification verification team conducted a visit to the project site (JSC “Zaporizhstal”) performed (on-site) interviews



with project stakeholders to confirm selected information and to resolve issues identified in the document review. Representatives of JSC “Zaporizhstal” and CJSC “National Carbon Sequestration Foundation” were interviewed (see References). The main topics of the interviews are summarized in Table 1.

Table 1 Interview topics

Interviewed organization	Interview topics
JSC “Zaporizhstal”	<ul style="list-style-type: none"> ➤ Organizational structure ➤ 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 ➤ Internal audits and check-ups
CONSULTANT	<ul style="list-style-type: none"> ➤ Baseline methodology ➤ Monitoring plan ➤ Monitoring report ➤ Deviations from PDD.

2.3 Resolution of Clarification, Corrective and Forward Action Requests

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

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

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

(b) Clarification request (CL), requesting the project participants to provide additional information for the 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 03 Corrective Action Requests, 01 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

No FARs were raised during previous verification.

3.2 Project approval by Parties involved (90-91)

The project has been approved by the Host Party (Ukraine) DFP at the determination stage.

Written project approval by Ukraine, Host party, (Letter of Approval of National Environmental Investment Agency of Ukraine No 2253/23/7, issued on 27/12/2010) and Switzerland, the other Party involved, (Letter of approval for a project under article 6 of the Kyoto Protocol (JI) of the Federal Office for the Environment (FOEN) of Switzerland No J294-0485, issued on 25/11/2010) have been issued by the DFP of those Parties.

The abovementioned written approval is unconditional.



No outstanding issues were raised.

3.3 Project implementation (92-93)

The project was implemented in accordance with the implementation schedule presented in determined PDD ver.04 of 01/03/2010.

The project which is being implemented at the JSC “Zaporizhstal” is aimed at effective utilization of the blast furnace gas by means of construction of the steam boiler and the turbogenerator with the capacity of 35 MW and effective use of the waste heat due to the reconstruction of the heat networks supplying heat to the customers of Zaporizhzhya city.

The main stages of project implementation are given below.

Subproject “Blast furnace gas utilization”

The decision to implement the project on installation of the steam boiler with the capacity of up to 150 t of steam per hour and the installation of the turbogenerator with the capacity of 35 MW to utilize the blast-furnace gas was taken in 2004. The project documentation was elaborated in 2004-2005 (Technical and economic assessment, state agency “Ukrqiprometz” (DT 336456)). The business plan of the project on the installation of the turbogenerator in the CHPP of the JSC “Zaporizhstal” was elaborated by the state agency “Ukrqiprometz” in 2007 (DT 348508). The construction took place during the period from 2005 to 2007. The commissioning took place in February 2008.

Subproject “Waste heat utilization”

The decision on starting the implementation of the project was taken in 2003. The elaboration of the project documentation was done in 2003. (The working project “Reconstruction of the heat networks from the heat and steam-air station to the thermal camera TK П9”, state agency “Gipropprom”, 2003. (DT 340020)). The construction took place during 2004-2005. The city of Zaporizhzhya began to receive the heat power from JSC “Zaporizhstal” starting from June 2005.

During the monitoring period of 01/07/2011-29/02/2012 the project was fully operational.

No outstanding issues were raised.



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

The monitoring for the current period occurred in accordance with the revised and positively approved monitoring plan which is deemed final and is listed on the UNFCCC JI website.

For calculating the emission reductions, key factors, 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 appropriately calibrated measuring equipment, certificates of physical and chemical characteristics of natural gas received from gas supplier, national officially approved data on the emission factor for Ukrainian power grid, reference materials, enterprise's technical reports, IPCC guidelines 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.

No outstanding issues were raised.

3.5 Revision of monitoring plan (99-100)

During the current (4th periodic) verification project participants submitted for determination another revision of the approved monitoring plan, description and justification of which were provided in the current Monitoring Report for the period 01/07/2011-29/02/2012.

Introduced changes are as follows:

- Conversion factor of fuel oil into standard fuel ($k_{\text{fuel oil}}$) is revised in the current monitoring period because of use in the CHPP new source of fuel oil supplied to JSC "Zaporizhstal" in January 2009.

$k_{\text{fuel oil}} = 1,424$ t of standard fuel / t (instead of 1,107 t of standard fuel / t used in previous monitoring period). During the current monitoring period (01.07.2011 – 29.02.2012) fuel oil was combusted at CHPP JSC "Zaporizhstal" only in January-February 2012.

Conversion factor of fuel oil into standard fuel ($k_{\text{fuel oil}}$) will be revised in the following monitoring periods if the quality of the fuel will be changed. The data sources of other conversion factor of fuel into standard fuel are clearly identified in the section B.1.1 of the monitoring report.



The detailed description and appropriate justification of all changes are provided in the Monitoring Report.

The Management and Operational Systems are eligible for reliable project monitoring according to the revised monitoring plan.

The proposed revision improves 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.

No outstanding issues were raised.

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.

The monitoring as well as quality assurance and quality control procedures are determined by the Standard of JSC "Zaporizhstal" STP 8.2-13-10 "Monitoring of GHG emission reductions" introduced on 05/03/2010 and other respective internal documents.

The function of the monitoring equipment, including its calibration status, is in order. The measurement equipment used for project monitoring is serviced, calibrated and maintained in accordance with the original manufacturer's instructions, industry standards and internal procedures; relevant records are kept as required. As to the internal procedures, the calibration and verification are regulated by internal standards of JSC "Zaporizhstal", such as STP 7.6-01-03 "Measurement assurance. General provisions", STP 7.6-07-03 "Organization and order of meters calibration and verification".

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 PDD and revisions of the monitoring plan. The management and operational system supporting GHG emission monitoring is a part of the company's Integrated Quality, Health Safety and Environmental Management System certified against the requirements of



ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007 international standards.

The Monitoring Report provides sufficient information on the assigning roles, responsibilities and authorities for implementation and maintenance of monitoring procedures including control of data. The verification team confirms effectiveness of the existing management and operational systems and found them eligible for reliable project monitoring.

The identified areas of concern as to the data management, project participants response and BVC's conclusion are described in Appendix A, Table 2 (refer to CAR 01 - CAR 03, CL 01).

3.7 Verification regarding programmes of activities (102-110)

Not applicable.

4 VERIFICATION OPINION

Bureau Veritas Certification has performed the 4th periodic verification for the period from 01/07/2011 to 29/02/2012 of the "Effective Utilization of the Blast-Furnace Gas and Waste Heat at the JSC "Zaporizhstal" Ukraine" Project in Ukraine, which applies JI specific approach. The verification was performed on the basis of UNFCCC criteria and host country criteria and also on the criteria given to provide for consistent project operations, monitoring and reporting.

The verification consisted of the following three phases:

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

The management of the CJSC "National Carbon Sequestration Foundation" (NCSF) 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 as per determined changes. 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 02.1, for the reporting period from 01/07/2011 to 29/02/2012 as indicated below. Bureau Veritas Certification confirms that the project is implemented as per determined changes. Installed equipment being



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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.

Deviations of actual emission reductions from estimated in the PDD in July 2011 – February 2012 can be in general explained by decrease on 40% of electricity generation in own CHPP of JSC “Zaporizhstal” (67 th. MWh) in comparison to the forecasted data.

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 01/07/2011 to 29/02/2012

Baseline emissions	:	205 301	tonnes of CO ₂ equivalent.
Project emissions	:	183 112	tonnes of CO ₂ equivalent.
Emission Reductions	:	22 189	tonnes of CO ₂ equivalent.



5 REFERENCES

Category 1 Documents:

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

- /1/ Monitoring Report for the period from 01/07/2011 till 29/02/2012 version 01.1 dated 10/02/2012
- /2/ Calculation of Emission Reductions – excel file ver. 01.1
- /3/ Monitoring Report for the period from 01/07/2011 till 29/02/2012 version 01.1 dated 02/04/2012
- /4/ Calculation of Emission Reductions – excel file dated 02/04/2012
- /5/ Monitoring Report for the period from 01/07/2011 till 29/02/2012 version 02.1 dated 29/05/2012
- /6/ Calculation of Emission Reductions – excel file ver. 02.1
- /7/ Verification Report by Bureau Veritas Certification Holding SAS No. UKRAINE/0134/2010 “Effective Utilization of the Blast-Furnace Gas and Waste Heat at the JSC “Zaporizhstal”, Ukraine”, rev.02 dated 28/12/2010
- /8/ Verification Report by Bureau Veritas Certification Holding SAS No. UKRAINE/0204/2010 “Effective Utilization of the Blast-Furnace Gas and Waste Heat at the JSC “Zaporizhstal”, Ukraine”, rev.01 dated 23/02/2011
- /9/ Verification Report by Bureau Veritas Certification Holding SAS No. UKRAINE/0325/2011 “Effective Utilization of the Blast-Furnace Gas and Waste Heat at the JSC “Zaporizhstal”, Ukraine”, rev.02 dated 06/09/2011
- /10/ Monitoring Report for the period from 01/01/2011 till 30/06/2011 version 02.2 dated 01/09/2011
- /11/ Project Design Document of the project “Effective Utilization of the Blast-Furnace Gas and Waste Heat at the JSC “Zaporizhstal” Ukraine”, version 04 dated 01/03/2010
- /12/ Letter of Approval from National Environmental Investment Agency of Ukraine ref.No 2253/23/7, issued on 27/12/2010
- /13/ Letter of approval for a project under article 6 of the Kyoto Protocol (JI) of the Federal Office for the Environment (FOEN) of Switzerland ref.No J294-0485, issued on 25/11/2010

Category 2 Documents:

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

- /1/ Acceptance certificate dated 21/02/2007 on Elster power meter type EA05RALX-B-4, serial #01152406
- /2/ Passport #137 dated 06/08/2010 on Elster power meter type EA05RALX-B-4, serial #01103395
- /3/ Calibration certificate dated 16/11/2004 on flow-meter YPCB



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- 022M-002ТП, serial #404033
- /4/ Passport dated 28/04/2005 on temperature transducer TSP 0879, serial #145
 - /5/ Calibration certificate dated 16/11/2004 on flow-meter «Взлет МР-У» УРСВ 022М-002ТП, serial #404034
 - /6/ Passport dated 28/04/2005 on temperature transducer type TSP 0879, serial #144
 - /7/ Passport dated 05/03/2008 on temperature transducer СПТ 961, serial #8372 (second meter)
 - /8/ Passport dated 27/07/2007 on flow sensor type Сафир-М 5450, serial #04025734
 - /9/ Passport dated 27/07/2007 on pressure sensor type Метран-100 ДИ 1171, serial #195836
 - /10/ Passport dated 27/07/2007 on temperature transducer type ТСП-1088, serial #589
 - /11/ Passport dated 27/07/2007 on flow sensor type Сафир-М 5450, serial #04015735
 - /12/ Passport dated 27/07/2007 on pressure sensor type Метран-100 ДИ 1171, serial #195834
 - /13/ Passport dated 27/07/2007 on temperature transducer type ТСП-1088, serial #587
 - /14/ Passport dated 27/07/2007 on flow sensor type Сафир-М 5450, serial #04975729
 - /15/ Passport dated 27/07/2007 on flow sensor type Сафир-М 5450, serial #04811730
 - /16/ Passport dated 27/07/2007 on pressure sensor type Метран-100 ДИ 1151, serial #68353
 - /17/ Passport dated 27/07/2007 on flow pressure type Метран-100 ДИ 1151, serial #68348
 - /18/ Passport dated 27/07/2007 on pressure sensor type Метран-100 ДИ 1151, serial #333050
 - /19/ Passport dated 01/10/2010 on temperature transducer type ТСП-1088, serial #15/612
 - /20/ Passport dated 25/11/2008 on flow sensor type ANNUBAR 485, serial #0049868
 - /21/ Passport dated 25/11/2008 on flow meter type Метран 350Р, serial #8399794 (second meter)
 - /22/ Passport dated 27/09/2007 on pressure sensor type Сафир-М 5050, serial #04833871
 - /23/ Passport dated 27/09/2007 on pressure sensor type Сафир-М 5050, serial #04839873
 - /24/ Passport dated 27/09/2007 on pressure sensor type Сафир-М 5050, serial #04845872
 - /25/ Passport dated 27/07/2007 on temperature transducer type ТСП-1088, serial #594
 - /26/ Passport dated 27/07/2007 on pressure sensor type Сафир-М 5440, serial #04019732



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- /27/ Passport dated 27/07/2007 on flow pressure type Метран-100 ДИ 1151, serial #68352
- /28/ Passport dated 27/07/2007 on temperature transducer type ТСП-1088, serial #590
- /29/ Passport dated 27/07/2007 on pressure sensor type Сафир-М 5420, serial #04049733
- /30/ Passport dated 27/09/2007 on pressure sensor type Сафир-М 5040, serial #04907731
- /31/ Passport dated 27/07/2007 on temperature transducer type ТСП-1088, serial #634
- /32/ Passport #15/418 dated 13/02/2007 on flow sensor type ДМ 3583, serial #2537
- /33/ Passport #15/418 dated 13/02/2007 on flow sensor type КСД 3, serial #176547 (second meter)
- /34/ Passport dated 15/02/2008 on flow sensor type ДМ 3583, serial #27546
- /35/ Passport dated 15/02/2008 on flow sensor type КСД 3, serial #176453 (second meter)
- /36/ Passport #15/411 dated 04/03/2005 on temperature transducer type ТХА, serial #15/610
- /37/ Passport #15/411 dated 04/03/2005 on temperature transducer type КСП-3, serial #1001793 (second meter)
- /38/ Passport dated 15/02/2007 on manometer type Метран 100 ДИ-1151, serial #21612
- /39/ Passport dated 15/02/2007 on manometer type КСУ-3, serial #978764 (second meter)
- /40/ Passport #15/415 dated 15/02/2008 on flow sensor type ДМ 3583, serial #36442
- /41/ Passport #15/415 dated 15/02/2008 on flow sensor type КСД 3, serial #235456 (second meter)
- /42/ Passport #15/426 dated 13/02/2007 on flow sensor type ДМ 3583, serial #81135
- /43/ Passport #15/426 dated 13/02/2007 on flow sensor type КСД 3, serial #157922 (second meter)
- /44/ Passport #15/333 dated 13/02/2005 on temperature transducer type ТХК, serial #15/609
- /45/ Passport #15/333 dated 13/02/2005 on temperature transducer type Диск-250, serial #19910 (second meter)
- /46/ Passport dated 30/05/2005 on pressure sensor type Метран 100 ДИ, serial #68357
- /47/ Passport dated 30/05/2005 on pressure sensor type Диск-250, serial #80875 (second meter)
- /48/ Passport #15/414 dated 13/02/2007 on flow sensor type ДМ 3583, serial #4733
- /49/ Passport #15/414 dated 13/02/2007 on flow sensor type КСД 3, serial #195023 (second meter)
- /50/ Passport dated 04/03/2005 on transducer type ТХК, serial



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- #15/611
- /51/ Passport dated 04/03/2005 on transducer type ПЦ-12р, serial #713 (second meter)
 - /52/ Passport #15/71 dated 04/01/2007 on flow sensor type ДМ, serial #84898 (CHPP #1, boiler #1)
 - /53/ Passport #15/71 dated 04/01/2007 on flow sensor type КСД-3, serial #203067 (second meter) (CHPP #1, boiler #1)
 - /54/ Passport #15/72 dated 05/01/2007 on pressure sensor type Метран55-ДИ, serial #248850 (CHPP #1, boiler #1)
 - /55/ Passport #15/72 dated 05/01/2007 on pressure sensor type КСУ-3, serial #64945 (second meter) (CHPP #1, boiler #1)
 - /56/ Passport #15/542 dated 01/03/2005 on temperature transducer type ТХА, serial #15/607 (CHPP #1, boiler #1)
 - /57/ Passport #15/542 dated 01/03/2005 on temperature transducer type КСП -3, serial #926028 (second meter) (CHPP #1, boiler #1)
 - /58/ Passport dated 05/01/2008 on flow sensor type ДМ3583М, serial #19883 (CHPP #1, boiler #2)
 - /59/ Passport dated 05/01/2008 on flow sensor type КСД-3, serial #176438 (second meter) (CHPP #1, boiler #2)
 - /60/ Passport #15/101 dated 11/01/2004 on pressure sensor type Метран55-ДИ-516, serial #248851 (CHPP #1, boiler #2)
 - /61/ Passport #15/101 dated 11/01/2004 on pressure sensor type КСУ-3, serial #345873 (second meter) (CHPP #1, boiler #2)
 - /62/ Passport #15/89 dated 19/01/2005 on temperature transducer type ТХА, serial #15/606 (CHPP #1, boiler #2)
 - /63/ Passport #15/89 dated 19/01/2005 on temperature transducer type КСП -3, serial #936296 (second meter) (CHPP #1, boiler #2)
 - /64/ Passport dated 19/06/2007 on pressure sensor type Метран 100ДД-1440, serial #235857 (CHPP #2, boiler #3)
 - /65/ Passport dated 15/06/2007 on pressure sensor type Метран 100ДИ-1161, serial #234453 (CHPP #2, boiler #3)
 - /66/ Passport dated 04/03/2008 on temperature transducer type ТХК-2088, serial #15/563 (CHPP #2, boiler #3)
 - /67/ Passport dated 16/06/2007 on temperature calculator type СПТ 961, serial #10919 (second meter) (CHPP #2, boiler #3)
 - /68/ Passport dated 13/06/2007 on flow sensor type Метран 1440, serial #235860 (CHPP #2, boiler #3)
 - /69/ Passport dated 18/06/2007 on pressure sensor type Метран 100ДИ, serial #234452 (CHPP #2, boiler #3)
 - /70/ Passport dated 04/03/2008 on temperature transducer type ТХК-2088, serial #15/564 (CHPP #2, boiler #3)
 - /71/ Passport dated 16/06/2007 on temperature calculator type СПТ961, serial #10912 (second meter) (CHPP #2, boiler #3)
 - /72/ Passport #15/104 dated 12/01/2005 on flow sensor type ДМ, serial #2520 (CHPP #2, boiler #4)



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- /73/ Passport #15/104 dated 12/01/2005 on flow sensor type КСД-3, serial #77446 (second meter) (CHPP #2, boiler #4)
- /74/ Passport #15/105 dated 11/01/2007 on flow sensor type ДМ, serial #7216 (CHPP #2, boiler #4)
- /75/ Passport #15/105 dated 11/01/2007 on flow sensor type КСД-3, serial #195031 (second meter) (CHPP #2, boiler #4)
- /76/ Passport dated 03/05/2006 on temperature transducer type ТХК, serial #15/605 (CHPP #2, boiler #4)
- /77/ Passport dated 03/05/2006 on temperature transducer type Диск-250, serial #91021 (second meter) (CHPP #2, boiler #4)
- /78/ Passport dated 20/01/2011 on manometer type МТП-160, serial #2299175 (CHPP #2, boiler #4)
- /79/ Passport #15/138 dated 24/01/2005 on flow sensor type ДМ, serial #28207 (CHPP #3, boiler #5)
- /80/ Passport #15/138 dated 24/01/2005 on flow sensor type КСД-3, serial #191706 (second meter) (CHPP #3, boiler #5)
- /81/ Passport #15/139 dated 24/01/2005 on flow sensor type ДМ, serial #81152 (CHPP #3, boiler #5)
- /82/ Passport #15/139 dated 24/01/2005 on flow sensor type КСД-3, serial #202647 (second meter) (CHPP #3, boiler #5)
- /83/ Passport #15/153 dated 19/01/2005 on pressure sensor type Метран55-ДИ-516, serial #77486 (CHPP #3, boiler #5)
- /84/ Passport #15/153 dated 19/01/2005 on pressure sensor type Диск-250, serial #23632 (second meter) (CHPP #3, boiler #5)
- /85/ Passport dated 02/03/2005 on temperature transducer type ТХА, serial #15/604 (CHPP #3, boiler #5)
- /86/ Passport dated 02/03/2005 on temperature transducer type КСП -3, serial #936152 (second meter) (CHPP #3, boiler #5)
- /87/ Passport #15/204 dated 12/01/2005 on flow sensor type ДМ, serial #15/603 (CHPP #4, boiler #6)
- /88/ Passport #15/204 dated 12/01/2005 on flow sensor type КСД-3, serial #203081 (second meter) (CHPP #4, boiler #6)
- /89/ Passport #15/188 dated 12/10/2004 on flow sensor type ДМ, serial #15/602 (CHPP #4, boiler #6)
- /90/ Passport #15/188 dated 12/10/2004 on flow sensor type КСД-3, serial #203327 (second meter) (CHPP #4, boiler #6)
- /91/ Passport #15/205 dated 27/01/2007 on pressure sensor type Метран 43Ф-ДД3196-01, serial #80082 (CHPP #4, boiler #6)
- /92/ Passport #15/205 dated 27/01/2007 on pressure sensor type МТ-100, serial #323954 (CHPP #4, boiler #6)
- /93/ Passport #15/205 dated 27/01/2007 on pressure sensor type Диск-250, serial #82711 (second meter) (CHPP #4, boiler #6)
- /94/ Passport #15/181 dated 21/10/2004 on pressure sensor type Терм ХХ, serial #15/601 (CHPP #4, boiler #6)
- /95/ Passport #15/181 dated 21/10/2004 on pressure sensor type ЖИЗ, serial #957092 (second meter) (CHPP #4, boiler #6)
- /96/ Passport dated 28/02/2005 on flow sensor type ДМ3583, serial

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- #9380 (CHPP #3, boiler #7)
- /97/ Passport dated 28/02/2005 on flow sensor type КСД-3, serial #235438 (second meter) (CHPP #3, boiler #7)
 - /98/ Passport dated 28/02/2005 on flow sensor type ДМ3583, serial #67322 (CHPP #3, boiler #7)
 - /99/ Passport dated 28/02/2005 on flow sensor type КСД-3, serial #235462 (second meter) (CHPP #3, boiler #7)
 - /100/ Passport #15/209 dated 25/01/2007 on pressure sensor type Метран55-ДИ-516, serial #248849 (CHPP #3, boiler #7)
 - /101/ Passport #15/209 dated 25/01/2007 on pressure sensor type КСУ -3, serial #129988 (second meter) (CHPP #3, boiler #7)
 - /102/ Passport #15/541 dated 02/03/2005 on temperature transducer type ТХК, serial #15/600 (CHPP #3, boiler #7)
 - /103/ Passport #15/541 dated 03/2005 on temperature transducer type КСП -3, serial #971148 (second meter) (CHPP #3, boiler #7)
 - /104/ Passport dated 07/2007 on pressure sensor type Метран 100 EX ДД, serial #338371
 - /105/ Passport dated 07/2007 on corrector type СПГ-762, serial #1337
 - /106/ Passport dated 07/2007 on pressure sensor type Метран 100 EX ДД, serial #367074
 - /107/ Passport dated 07/2007 on temperature transducer type TCM 1088, serial #16/58
 - /108/ Passport #15/150 dated 12/05/2004 on flow sensor type SDC 900 DP, serial #8739928
 - /109/ Passport #15/148 dated 26/02/2007 on corrector type СПГ-762, serial #0392 (second meter)
 - /110/ Passport dated 16/02/2011 on pressure sensor type Метран 100-ДА, serial #289626
 - /111/ Passport #15/153 dated 07/03/2006 on temperature transducer type TCM ГР100М, serial #15-100
 - /112/ Passport dated 20/02/2008 on pressure sensor type Сафир, serial #06368611
 - /113/ Passport dated 20/02/2008 on pressure sensor type Диск 250, serial #35667 (second meter)
 - /114/ Passport #15/88 dated 19/01/2005 on temperature transducer type ТХК, serial #15/608
 - /115/ Passport #15/88 dated 19/01/2005 on temperature transducer type КСП-3, serial #410917 (second meter)
 - /116/ Passport #15/137 dated 18/01/2007 on pressure sensor type Метран-100ДИ, serial #68873
 - /117/ Passport #15/137 dated 18/01/2007 on pressure sensor type Диск 250, serial #23740 (second meter)
 - /118/ Passport on measuring staff type Метрошток-3,3, serial #18987
 - /119/ Passport #138 dated 06/08/2010 on power meter type EA05RL-B-4, serial #01103254
 - /120/ Passport #139 dated 06/08/2010 on power meter type EA05RL-B-4, serial #01103145



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- /121/ Passport #140 dated 06/08/2010 on power meter type EA05RL-B-4, serial #01103216
- /122/ Passport #141 dated 06/08/2010 on power meter type EA05RL-B-4, serial #01103327
- /123/ Passport #142 dated 06/08/2010 on power meter type EA05RL-B-4, serial #01103262
- /124/ Passport #143 dated 06/08/2010 on power meter type EA05RL-B-4, serial #01103264
- /125/ Passport #144 dated 06/08/2010 on power meter type EA05RL-B-4, serial #01103140
- /126/ Passport #145 dated 06/08/2010 on power meter type EA05RL-B-4, serial #01103134
- /127/ Passport #586 on guard relay type Micom P220, serial #2407614
- /128/ Passport #1381 on guard relay type Micom P220, serial #0507097
- /129/ Passport #1580 on amperemeter type Э378, serial #217322
- /130/ Passport #2795 on amperemeter type Э378, serial #326913
- /131/ Passport #6125 on amperemeter type Э378, serial #582045
- /132/ Passport #5656 on amperemeter type Э378, serial #928077
- /133/ Passport #5656 on amperemeter type Э378, serial #539721
- /134/ Passport #8404 on amperemeter type Э378, serial #493672
- /135/ Passport #9978 on amperemeter type Э378, serial #163375
- /136/ Passport #5653 on amperemeter type Э378, serial #034245
- /137/ Passport #4670 on amperemeter type Э365.1-1, serial #044961
- /138/ Passport #1863 on amperemeter type Э365.1-1, serial #034565
- /139/ Passport #4668 on amperemeter type Э365-1, serial #85361086
- /140/ Passport #4665 on amperemeter type Э365-1
- /141/ Passport #4664 on amperemeter type Э365-1
- /142/ Passport #819 on amperemeter type Э365-1, serial #06746712
- /143/ Passport #4121 on amperemeter type Э365-1, serial #89812388
- /144/ Passport #4120 on amperemeter type Э365-1, serial #15/0318
- /145/ Passport #7035 on amperemeter type Э365-1
- /146/ Passport #7412 on amperemeter type Э365-1
- /147/ Passport #7027 on amperemeter type Э365-1
- /148/ Passport #157 on amperemeter type Э377, serial #227120
- /149/ Passport #584 on amperemeter type Э377, serial #266346
- /150/ Passport #173 on amperemeter type Э377, serial #015931
- /151/ Passport #174 on amperemeter type Э377, serial #015799
- /152/ Passport #3854 on amperemeter type Э378, serial #000744
- /153/ Passport #1819 on amperemeter type Э378, serial #289282
- /154/ Passport #5651 on amperemeter type Э378, serial #493603
- /155/ Passport #5059 on amperemeter type Э378, serial #761384
- /156/ Passport #6484 on amperemeter type Э378, serial #246305
- /157/ Passport #7412 on amperemeter type Э378, serial #034476
- /158/ Passport #8854 on amperemeter type Э378, serial #136022
- /159/ Passport #8855 on amperemeter type Э378, serial #355080
- /160/ Passport #6760 on amperemeter type Э378, serial #539695



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- /161/ Passport #1865 on amperemeter type Э378, serial #385547
- /162/ Passport #8857 on amperemeter type Э378, serial #632551
- /163/ Passport #8856 on amperemeter type Э378, serial #632352
- /164/ Passport #1378 on amperemeter type Э378, serial #853753
- /165/ Passport #8698 on amperemeter type Э378, serial #539592
- /166/ Passport #4422 on amperemeter type Э378, serial #234433
- /167/ Passport #11047 on amperemeter type Э365-1, serial #90703238
- /168/ Passport #9919 on amperemeter type Э365-1, serial #85361585
- /169/ Passport #9918 on amperemeter type Э365-1, serial #044795
- /170/ Passport #9917 on amperemeter type Э365-1, serial #85361565
- /171/ Passport #9920 on amperemeter type Э365-1, serial #85361072
- /172/ Passport #6868 on amperemeter type Э365-1, serial #036120
- /173/ Passport #6869 on amperemeter type Э365-1, serial #036130
- /174/ Passport #6867 on amperemeter type Э365-1, serial #036877
- /175/ GHG emissions reduction monitoring СТП 8.2-13-10
- /176/ Power consumption calculation on thermalclamping unit network pumps at JSC "Zaporizhstal" CHPP
- /177/ Attestation certificate of JSC "Zaporizhstal" Central Chemical Laboratory dated 18/12/2009 #06544-5-1-191-ВЛ, valid till 18/12/2012
- /178/ CHPP reports form #1, 2, 5 of the project "Effective Utilization of the Blast-Furnace Gas and Waste Heat at the JSC "Zaporizhstal", Ukraine"
- /179/ Log of daily readings of commercial metering of heat energy to Concern "Municipal Heat Networks"
- /180/ Allowance for heat consumption of Concern "Municipal Heat Networks"
- /181/ The form #4 means information about used measuring equipment on the project "Effective Utilization of the Blast-Furnace Gas and Waste Heat at the JSC "Zaporizhstal", Ukraine"
- /182/ Technical reports of the CHPP in January - February 2012

Persons interviewed:

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

- /1/ I. Kholina – Head of the environmental laboratory of JSC "Zaporizhstal"
- /2/ V. Jarysh – Deputy head of chief power engineer department of JSC "Zaporizhstal"
- /3/ A. Grabko – Head of automation and metrology department of JSC "Zaporizhstal"
- /4/ P. Kushnarenko – Head of CHPP of JSC "Zaporizhstal"
- /5/ L. Zubkova – Engineer of Bureau of industrial heat energy and fuel and energy recording of JSC "Zaporizhstal"



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- /6/ S.Tur – Mechanic of Control equipment and automatization department of CHPP of JSC “Zaporizhstal”
- /7/ R. Kazakov – Principal specialist of CJSC “National Carbon Sequestration Foundation”



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APPENDIX A: 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
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?	The project has been approved by both Host Party: Ukraine and Switzerland. The written project approvals were issued by DFPs of Parties involved: <ul style="list-style-type: none"> - Ukraine: Letter of Approval of National Environmental Investment Agency of Ukraine No 2253/23/7, issued on 27/12/2010, and - Switzerland: Letter of approval for a project under article 6 of the Kyoto Protocol (JI) of the Federal Office for the Environment (FOEN) of Switzerland No J294-0485, issued on 25/11/2010. These letters were provided.	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
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?	Implementation of the project activity was realized according to the project implementation schedule described in the project design document.	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 reporting period.	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?	The monitoring occurred in accordance with the PDD regarding which the determination has been deemed final and revisions to the monitoring plan. The revisions which were introduced during 2008-2009 monitoring period where	OK	OK



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DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
		<p>positively determined in course of the 1st verification under the project. Another set of modifications have been introduced during the present monitoring period and were submitted for determination in course of the current verification (refer to paragraphs 99 (a) – 99 (b) of this check-list).</p> <p>The approved and new changes to the monitoring plan were described and justified in the section A.8 of the MR.</p>		
95 (a)	<p>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?</p>	<p>Key factors, 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 for calculating the emission reductions, as appropriate. Relevant national policies and sectoral circumstances were considered when setting the baseline.</p> <p>Types of fuel available for project participants, electric power demand, demand of heat power supplied to the city etc. were taking into account for calculating the emission reductions.</p> <p>Data used for calculation of emissions reduction based on information that confirmed by JSC “Zaporizhstal” documental evidences.</p>	OK	OK
95 (b)	<p>Are data sources used for calculating emission reductions or enhancements of net removals clearly identified, reliable and transparent?</p>	<p>The data sources used for calculating emission reductions are clearly identified, reliable and transparent.</p> <p>Data sources include calibrated measuring equipment, certificates of physic and chemical characteristics of natural gas provided by gas suppliers, national officially approved data on the emission factor for Ukrainian power grid, IPCC data, equipment technical passports, enterprise’s technical reports, relevant sectoral studies etc.</p> <p>On site responsible persons register data from the measurement equipments and fixed monitoring data to logbooks, monthly data collected to the technical reports, and prepared special reporting forms.</p> <p>Moreover, there is electronic database of monitoring data.</p>	OK	OK



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DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
		All roles and responsibilities are described in details in the MR.		
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 used for calculating the emission reduction by the project such as CO ₂ emission factor for fuel oil combustion, CO ₂ emission factor for coke oven gas combustion, CO ₂ emission factor during the electric power generation supplied by the power grid of Ukraine for the projects consuming electric power and CO ₂ emission factor during the heat power production which would have been produced in the absence of project activity, which is actually an emission factor for natural gas combustion, 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. As a result of documents revision, all data connected with estimation of emission reductions are consistent through the Monitoring report and excel spreadsheets with calculation.	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 from that is stated in F-JI-SSCBUNDLE?	N/a	N/a	N/a
97 (b)	If the determination was conducted on the basis of an overall monitoring plan, have the	N/a	N/a	N/a



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DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	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
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?	Yes, project participants provided an appropriate justification for the proposed revision, which was fully described in the Determination of Monitoring Plan Report. The monitoring of baseline and project emissions and calculation of emission reductions will be performed using the same approaches and formulae as in the determined monitoring plan. MR contains the corresponding explanations and provides an appropriate justification of the changes.	OK	OK
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?	Yes, the proposed revision improves the accuracy and 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, which was already verified.	OK	OK
Data management				
101 (a)	Is the implementation of data collection procedures in accordance with the monitoring plan, including the quality control and quality assurance procedures?	Yes, implementation of data collection procedures is in accordance with the monitoring plan, including the quality control and quality assurance procedures.	OK	OK



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DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
101 (b)	Is the function of the monitoring equipment, including its calibration status, in order?	<p>Yes, the functions of monitoring equipment, including calibration status, are serviceable and in order.</p> <p><u>Corrective Action Request 01</u> Please provide information about third party involved in calibration process of measurement equipment.</p> <p><u>Corrective Action Request 02</u> Please, provide documented evidences that confirm calibration status of some measurement devices (i.e., measurement equipment such as ser. #289626, ser. #044961, ser. #034565, ser. #85361086, ser. #044795, ser. #85361585).</p> <p><u>Corrective Action Request 03</u> Please bring the data to calibration the device Метран 43Ф ДД ser. #80082 in the Table B.3.1-1.</p> <p><u>Clarification request 1</u> In the MR for the device Сафир-М is indicated serial number #040046733, and in the device passport indicates number 04049733, please explain the discrepancy.</p>	CAR 01 CAR 02 CAR 03 CL 01	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?	Yes, the data collection and management system for the project is in accordance with the monitoring plan. The verification team confirms effectiveness of the existing management and operational systems and found them eligible for reliable project monitoring.	OK	OK
Verification regarding programmes 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



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DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
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	<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 PoA 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"> - The types of JPAs; - The complexity of the applicable technologies and/or measures used; - The geographical location of each JPA; - The amounts of expected emission reductions of the JPAs being verified; - The number of JPAs for which emission reductions are being verified; - The length of monitoring periods of the JPAs being verified; and 	N/a	N/a	N/a



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DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	- 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 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



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Table 2 Resolution of Corrective Action and Clarification Requests

Draft report clarification and corrective action requests by verification team	Ref. to checklist question in table 1	Summary of project participant response	Verification team conclusion
<p><i>Corrective Action Request 01</i> Please provide information about third party involved in calibration process of measurement equipment.</p>	101 (b)	The information about third party involved in calibration process of measurement equipment is provided in the section C.2 of the monitoring report.	The issue is closed.
<p><i>Corrective Action Request 02</i> Please, provide documented evidences that confirm calibration status of some measurement devices (i.e., measurement equipment such as ser. #289626, ser. #044961, ser. #034565, ser. #85361086, ser. #044795, ser. #85361585).</p>	101 (b)	The confirmed documentation of measuring devices calibration is attached.	The issue is closed.
<p><i>Corrective Action Request 03</i> Please bring the data to calibration the device Метран 43Ф ДД ser. #80082 in the Table B.3.1-1.</p>	101 (b)	<p>The measuring device Метран 43Ф ДД ser. #80082 is replaced by measuring device МТ-100 ser. #323954.</p> <p>Therefore the information of Метран 43Ф ДД ser. #80082 is excluded from the table B.3.1-1.</p>	The issue is closed.
<p><i>Clarification request 1</i> In the MR for the device Сафир-М is indicated serial number #040046733, and in the device passport indicates number 04049733, please explain the discrepancy.</p>	101 (b)	The serial number of measuring device Сафир-М is corrected on 04049733 according to the certificate of device.	The issue is closed.