VERIFICATION REPORT
"CENTRE-TEST" LLC

VERIFICATION OF THE
«REALIZATION OF A COMPLEX OF ENERGY SAVING ACTIVITIES AT THE JSC "ODESSA PORT PLANT"»

THIRD PERIODIC REPORT FOR 2009

REPORT NO. UKRAINE/0158/2010/1

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BUREAU VERITAS CERTIFICATION

Report No: UKRAINE/0158/2010/1

VERIFICATION REPORT

Date of first issue:	Organizational unit:
09/11/2011	Bureau Veritas Certification Holding SAS
Client:	**Client ref.:**
"Centre-TEST" LLC	Nina Kolesnikova

Summary:
Bureau Veritas Certification has made the 3rd periodic verification of the project «Realisation of a complex of energy saving activities at the JSC "Odessa Port Plant"», project of "Centre-TEST" LLC located in Yuzne town, Odessa 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 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 ready to generate GHG emission reductions. The GHG emission reduction is calculated without material misstatements, and the ERUs issued totalize 133 834 tons of CO_2eq for the monitoring period of 01.01.2009 to 31.12.2009.

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

Report No.:	Subject Group:
UKRAINE/0158/2010/1	JI
Project title:	
«Realization of a complex of energy saving activities at the JSC "Odessa Port Plant"»	
Work carried out by:	
Oleg Skoblyk – Team Leader, Lead verifier Kateryna Zinevych – Team Member, lead verifier	
Work reviewed by:	
Ivan Sokolov – Internal Technical Reviewer	
Work approved by:	
Flavio Gomes – Operational Manger	

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19/11/2010	02	34

Bureau Veritas Certification Holding SAS

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1 INTRODUCTION

"Centre-TEST" LLC has commissioned Bureau Veritas Certification to verify the emissions reductions of its JI project «Realization of a complex of energy saving activities at the JSC "Odessa Port Plant"» (hereafter called "the project") at Yuzhne town, Odessa region, Ukraine.

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

1.1 Objective

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

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

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

1.2 Scope

The verification scope is defined as an independent and objective review of the project design document, the project's baseline study 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 and/or corrective actions may provide input for improvement of the project monitoring towards reductions in the GHG emissions.

1.3 Verification Team

The verification team consists of the following personnel:

Oleg Skoblyk
Bureau Veritas Certification Team Leader, Climate Change Lead Verifier

Kateryna Zinevych
Bureau Veritas Certification, team member, Climate Change Lead 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 01.1 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 determination protocol is enclosed in Appendix A to this report.

2.1 Review of Documents

The Monitoring Report (MR) submitted by "Centre-TEST" LLC and additional background documents related to the project design and baseline, i.e. country Law, Project Design Document (PDD), Approved CDM methodology (if applicable) and/or Guidance on criteria for baseline setting and monitoring, Host party criteria, Kyoto Protocol, Clarifications on Verification Requirements to be Checked by an Accredited Independent Entity were reviewed. Answering the AIEs CARs and CLs project participant has issued new version of the Monitoring Report – version 2.

The verification findings presented in this report relate to the Monitoring Report version(s) 4.0 and project as described in the determined PDD.

2.2 Follow-up Interviews

On 22/09/2011 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 "Centre-TEST" LLC and OJSC "Odesskiy priportoviy zavod" were interviewed during site visit (see References for the list of interviewed persons). The main topics of the interviews are summarized in Table 1.

Table 1 Interview topics

Interviewed organization	Interview topics
OJSC "Odesskiy priportoviy zavod"	➢ Organizational structure. ➢ Responsibilities and authorities. ➢ Training of personnel. ➢ Quality management procedures and technology. ➢ Implementation of equipment (records). ➢ Metering equipment control. ➢ Metering record keeping system, database.
"Centre-TEST" LLC	➢ 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 AIE 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.

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 7 Corrective Action Requests and 1 Clarification Requests.

The number between brackets at the end of each section corresponds to the DVM paragraph (see references).

3.1 Project approval by Parties involved (90-91)

Written project approval by Switzerland has been issued by the DFP of that Party when submitting the first verification report to the secretariat for publication in accordance with paragraph 38 of the JI guidelines, at the latest.

The abovementioned written approval is unconditional.

3.2 Project implementation (92-93)

Project activity is aimed at improvement in power efficiency of the plant by the implementation of 3 subprojects. The main purpose of the planned activities implementation for the power efficiency improvement of the production in JSC “OPP” is to decrease natural gas burnt for ammonia production and heat energy generation for production and heating needs of the plant impelling greenhouse gases emissions to reduce.

1. Installation of waste heat boilers for the flue gases – as a result of this subproject implementation, during 2001-2004 the waste heat boilers were installed, allowing recovering heat of the flue gases from gas-turbine engines. The main purpose of this activity is to decrease natural gas volumes burnt by the boiler shop of JSC “OPP” to generate heat energy for production and heating needs of the plant. The flue gas heat recovery by waste heat boilers allows to generate steam necessary for urea production and to heat up the water in the network of the plant. This heat energy partly substitutes one that is generated by the boiler shop leading to the reduction of natural gas volumes burnt by the boiler shop for heat energy recovery.

2. Modernization of two urea production units – as a result of this subproject implementation, in 2001 a phased modernization of two urea production units started. The aim of the modernization is to install highly efficient equipment permitting to decrease amounts of heat and electric energy used for urea production, at the same time allowing reducing the amounts of fossil fuel burnt for the energy recovery. Reduction of heat

energy volume for the urea production will lead to the decrease in amounts of heat energy generated by the boiler shop and, as a result, reducing consumption of natural gas by the boiler shop. Reduction of the electric power consumption will permit to reduce its consumption from Ukraine's Electricity Transmission Grid leading to the decrease of the burning volume of fossil fuel for electric energy production by power plants in Ukraine.

3. Modernization of two ammonia production units – as a result of this subproject implementation, in 2004 a phased modernization of two ammonia production units started. The purpose of modernization is to reduce consumption of natural gas for ammonia production. Natural gas, used for ammonia production, has two functions:

- technological purposes – the natural gas is used directly for the chemical ammonia synthesis providing necessary chemical elements for the process. Data on consumption of technological gas is used to calculate amounts of ammonia produced;

- fuel purposes – this natural gas is necessary to provide required temperatures for chemical synthesis. It is the gas which is planned to reduce in natural gas consumption for ammonia production.

It is possible to reduce natural gas intake in results of power efficient equipment installation allowing to reduce the rate of natural gas specific consumption for ammonia production.

3.3 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.

Key monitoring activities:
- measurement of the heat energy amount from waste heat boilers for the flue gases;
- registering of operational time of waste heat boilers for the flue gases;
- measurement of the power energy consumed by urea production units;
- measurement of the heat energy consumed by urea production units;
- calculation of urea amount produced;
- measurement of the natural gas consumed by ammonia production units;
- calculation of ammonia produced.

Measurements of the heat energy amount from waste heat boilers for the flue gases, as well as the heat energy consumed by urea production units are taken by sections of heat measurements.

Measurements of the power energy consumed by urea production units are taken by power measurement sections. Measurements of the natural gas consumed by ammonia production units are taken by gas measuring sections.
Registering of operational time of waste heat boilers for the flue gases in the ammonia terminal is equal to operational time of gas-turbine engines. Operational time of gas-turbine engines is controlled by shift manager of the ammonia terminal. Registered results of gas-turbine engines operational time are recorded in technological registers (registration of equipment operational time), afterwards an economist registers data in APM Mechanics software that automatically carries out correspondent calculations to include data into technical and production reports monthly.

Calculation of produced urea and ammonia is conducted according to the “Method of urea output calculation by urea production plant” and to the “Calculation method of ammonia plant productivity in the ammonia production department” relatively.

Monitoring equipment of this project is sections of relating energy resources measurements. The main element of the measurement section is a primary transducer (meter) that is subject to periodic inspection or calibration. SE "Odessastandardmetrology authorized body, entitled to conduct inspection and calibration of measuring equipment is third party involved.

Data sources used for calculating emission reductions or enhancements of net removals, such as (plant records, IPCC 1996 data, National Cadastre of Ukraine) are clearly identified, reliable and transparent.

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

3.4 Revision of monitoring plan (99-100)

The project participants provided an appropriate justification for the proposed revision, which is:

- approach of emission calculation of “Modernization of two ammonia production units” subproject was changed (as it is mentioned in the section A.2 of the PDD and A.3. of the Monitoring Report natural gas of the fuel purpose is the object of the natural gas expenditure decreasing during the ammonia production, which is why instead of formula mentioned in the PDD for the calculation of the emissions during ammonia production, the formula which is used for the calculation emissions from the combustion of the fossil fuel was used);

- value of carbon oxidation factor during the natural gas combustion (OXIDNG) was changed. Data of this parameter in PDD was accepted according to "Key principles of national greenhouse gases inventorying IPCC”, 2006, although, since the indicated document is not yet approved at the parties conference, but is only prepared for the parties conference approval, the factor determined

by “Reviewed key principles of national greenhouse gases inventorying IPCC”, 1996 was used for calculation herein;

- only one greenhouse gases emission factor value was used for National Energy Grid System of Ukraine (NEGSU) (unlike PDD), namely: a factor of greenhouse gases emission during consumption reduction or increasing of electric power from NEGSU;
- in the monitoring plan the scheme of the GMS used in the project was updated with more detailed information considering usage of GMS and results their measurement.

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.

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

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

The data collection and management system for the project is in accordance with the monitoring plan.

Measurement and data collection from measurement results are the responsibility of technical personnel. The technical personnel deliver the measurement results to the technical and production department for calculation of greenhouse gases emission reduction. The staff of the technical and production department is also responsible for data collection that is not subject to measuring, but is to monitoring.

In the PDD version 02 ERUs for the period of 2009 are quantified as 133030 t CO_2-equivalent while in the Monitoring Report version 4.0 ERUs are quantified as 133834 t CO_2- equivalent.

Verification team certifies that emission reductions calculations were provided in accordance with the changed Monitoring Plan.

Measuring and archiving the results are the responsibility of technical personnel. The technical personnel submit measurements results to the technical and production department for estimation of greenhouse gases

emissions reduction. The functions of the technical and production department staff also include collection of non-measured data which are also subject to the monitoring. The staff of technical and production department is obliged to make a back up copy of monitoring data which should be stored apart from the main data to avoid their loss in case of force majeure situation, which can cause the monitoring data loss.

All information about monitoring data and corrective measures are to be archived for future verification of emissions reduction level. The chief of the technical and production department is responsible for preparation and archiving of monitoring reports. The director analyses summarized monitoring data and relevant documentation from time to time.

The structure of the monitoring group, its functions and obligations identified by order of the Director of JSC “OPP” dated 19.07.2010. Before the order was issued, the technical and production department had responsibilities of the monitoring group and the obligations of the head of the monitoring group were performed by the chief of the technical and production department.

The director of the JSC “OPP” appoints personnel for operation and maintenance of technical equipment needed for the project. Their functions also include registration of all data necessary for monitoring. The head of the monitoring group of fuel supply system operational data will be deputy chief engineer – head of technical and production department of the JSC “OPP”. The monitoring will be conducted in close collaboration with technical personnel and will include the monitoring itself and also analysis and archiving of all data determined in the previous section. The functions of monitoring group will also include the estimation of emissions reduction level. Periodic data on energy sources consumption will be compared with relevant registered data taken from the technical personnel to approve data credibility. In case of inequality of these data the cause of its appearance must be found in collaboration with the technical personnel. If the discrepancy of monitoring data is found, monitoring system of relevant data must be corrected.

The head of the monitoring group is responsible for preparation and archiving of monitoring reports. The director analyses general monitoring data and relevant documentation from time to time.

Technical personnel record the results of measurements in the relevant registers and submit them to the monitoring group for estimation of greenhouse gases emissions reduction. The functions of the monitoring group also include collection of non-measured data which are also subject

to the monitoring. The monitoring group registers the monitoring data in the technical and production reports.

The monitoring data is kept during the whole crediting period and 2 year after the last charge of emission reduction unit.

3.6 Verification regarding programmes of activities (102-110)

Not applicable.

4 VERIFICATION OPINION

Bureau Veritas Certification has performed the 3rd periodic verification of the project «Realization of a complex of energy saving activities at the JSC "Odessa Port Plant"» Project in Ukraine, which applies the JI Specific approach. The verification was performed on the basis of UNFCCC criteria and host country criteria and also on the criteria given to provide for consistent project operations, monitoring and reporting.

The verification consisted of the following three phases: i) desk review of 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 "Centre-TEST" LLC 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 final PDD version 02 and revised monitoring plan. 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 4.0 for the reporting period as indicated below. 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.

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

Reporting period: From 01/01/2009 to 31/12/2009
Baseline emissions :1 610 125 t CO_2 equivalents.
Project emissions : 1 476 291 t CO_2 equivalents.
Emission Reductions : 133 834 t CO_2 equivalents.

5 REFERENCES

Category 1 Documents:
Documents provided by Type the name of the company that relate directly to the GHG components of the project.

/1/ Monitoring Report, version 1.

/2/ Monitoring Report, version 2.

/3/ Monitoring Report, version 3.

/4/ Monitoring Report, version 4.

/5/ PDD «Realisation of a complex of energy saving activities at the JSC "Odessa Port Plant"» version 02 dated 25 September 2010

/6/ Letter of Approval from National Environmental Investment Agency of Ukraine № 1722/23/7 dated 28.10.2010

/7/ Letter of Approval from Federal Office on Environment of Switzerland JI294-0485 dated 26 October 2010

/8/ Excel spreadsheet of the emission reductions calculation version 1.0

/9/ "Determiantion and Verification manual" version 01

Category 2 Documents:
Background documents related to the design and/or methodologies employed in the design or other reference documents.

№ п/п	Назва документу
1.	Technical-productional Report ЦПрА December 2001 (yearly)
2.	Technical-productional Report ЦПрА December 2002 (yearly)
3.	Technical-productional Report ЦПрА December 2003 (yearly)
4.	Technical-productional Report ЦПрА January 2004
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165.	Technical-productional Report ЦПА March 2005
166.	Technical-productional Report ЦПА April 2005
167.	Technical-productional Report ЦПА May 2005
168.	Technical-productional Report ЦПА June 2005
169.	Technical-productional Report ЦПА July 2005
170.	Technical-productional Report ЦПА August 2005
171.	Technical-productional Report ЦПА September 2005
172.	Technical-productional Report ЦПА October 2005
17	Technical-productional Report ЦПА November 2005

174.	Technical-productional Report ЦПА December 2005
175.	Technical-productional Report ЦПА January 2006
176.	Technical-productional Report ЦПА February 2006
177.	Technical-productional Report ЦПА March 2006
178.	Technical-productional Report ЦПА April 2006
179.	Technical-productional Report ЦПА May 2006
180.	Technical-productional Report ЦПА June 2006
181.	Technical-productional Report ЦПА July 2006
182.	Technical-productional Report ЦПА August 2006
183.	Technical-productional Report ЦПА September 2006
184.	Technical-productional Report ЦПА October 2006
185.	Technical-productional Report ЦПА November 2006
186.	Technical-productional Report ЦПА December 2006
187.	Technical-productional Report ЦПА January 2007
188.	Technical-productional Report ЦПА February 2007
189.	Technical-productional Report ЦПА March 2007
190.	Technical-productional Report ЦПА April 2007
191.	Technical-productional Report ЦПА May 2007
192.	Technical-productional Report ЦПА June 2007
193.	Technical-productional Report ЦПА July 2007
194.	Technical-productional Report ЦПА August 2007
195.	Technical-productional Report ЦПА September 2007
19	Technical-productional Report ЦПА October 2007

197.	Technical-productional Report ЦПА November 2007
198.	Technical-productional Report ЦПА December 2007
199.	Technical-productional Report ЦПА January 2008
200.	Technical-productional Report ЦПА February 2008
201.	Technical-productional Report ЦПА March 2008
202.	Technical-productional Report ЦПА April 2008
203.	Technical-productional Report ЦПА May 2008
204.	Technical-productional Report ЦПА June 2008
205.	Technical-productional Report ЦПА July 2008
206.	Technical-productional Report ЦПА August 2008
207.	Technical-productional Report ЦПА September 2008
208.	Technical-productional Report ЦПА October 2008
209.	Technical-productional Report ЦПА November 2008
210.	Technical-productional Report ЦПА December 2008
211.	Technical-productional Report ЦПА January 2009
212.	Technical-productional Report ЦПА February 2009
213.	Technical-productional Report ЦПА March 2009
214.	Technical-productional Report ЦПА April 2009
215.	Technical-productional Report ЦПА May 2009
216.	Technical-productional Report ЦПА June 2009
217.	Technical-productional Report ЦПА July 2009
218.	Technical-productional Report ЦПА August 2009
21	Technical-productional Report ЦПА September 2009

220.	Technical-productional Report ЦПА October 2009
221.	Technical-productional Report ЦПА November 2009
222.	Technical-productional Report ЦПА December 2009
223.	Template of the rapport of the shift head ЦПрА
224.	Honored diploma of the Odessa city hall
225.	Diploma of the Industry Academy to Yakushyn O.O.
226.	Certificate of the participation at «TOP-ENERGYEFFICIENCY»
227.	Diploma of the contest winner «Lider FEC-2006»
228.	Honored diploma of the Odessa city hall
229.	Protocol of the exame committee dated 27.09.2001 № 114 a/01
230.	Protocol of the exame committee dated 27.09.2001 № 114 a/01
231.	Protocol №164 of the enterprise meeting dated 30.09.2009
232.	Protocol №179 of the labor safety committee meeting dated 28.09.2005
233.	Protocol №180 of the labor safety committee meeting dated 28.09.2005
234.	Protocol №216 of the labor safety committee meeting dated 06.10.2004
235.	Protocol №217 of the labor safety committee meeting dated 06.10.2004
236.	Protocol №164 of the enterprise meeting dated 30.09.2009
237.	Passport ТСП 1287 1Т2324
238.	Passport STD 120 F2004
239.	Passport STG 674 P2126
240.	Photo STD 120 F2004
241.	Photo STG 674 P2126
24	Photo ТСП 1287 1Т2324

243.	Passport ТСП 1287 2Т2324
244.	Passport STD 120 F2004
245.	Passport STG 674 P2126
246.	Photo STD 120 F2004
247.	Photo STG 674 P2126
248.	Photo ТСП 1287 2Т2324
249.	Passport ST-930 F2037 (BOT-6)
250.	Passport STG-94LR-A10 P2122 (BOT-6,7)
251.	Passport ТКХ-2088 1Т2391 (BOT-6)
252.	Photo ST-930 F2037 (BOT 6)
253.	Photo ТКХ-2088 1Т2391 (BOT 6)
254.	Passport ST-930 F2037 (BOT-7)
255.	Passport ТКХ-2088 2Т2391 (BOT-7)
256.	Photo ТКХ-2088 2Т2391 (BOT 7)
257.	Photo STG-94LR-A10 P2122 (BOT 6,7)
258.	Passport STD-924 WP 050
259.	Passport STG-94L WP 040(A)
260.	Passport ТСП 8040Р WT 060A
261.	Photo ТСП 8040Р WT 060A
262.	Photo STD-924 WP 050
263.	Photo STG-94L WP 040(A)
264.	Passport STG-94LR WP 040 B
26	Passport STD-924 WP 050

266.	Passport ТСП 8040P WT 060B
267.	Photo STG-94LR WP 040 B
268.	Photo STD-924 WP 050
269.	Photo ТСП 8040P WT 060B
270.	Passport STD-930 WP 120
271.	Passport STG 94LR WP 080
272.	Passport ТСП 8040P WT 080
273.	Photo STD-930 WP 120
274.	Photo STG 94LR WP 080
275.	Photo ТСП 8040P WT 080
276.	Passport STD-930 WP 120
277.	Passport STG 94LR WP 080
278.	Passport ТСП 8040P WT 080
279.	Photo STD-930 WP 120
280.	Photo STG 94LR WP 080
281.	Photo ТСП 8040P WT 080
282.	Passport Флоуктек-ТМ basic
283.	Passport Флоуктек-ТМ reserved
284.	Passport CTD 924 (ВОГ-6)
285.	Passport CTD 924 (ВОГ-7)
286.	Photo CTD 924 (ВОГ-6)
287.	Photo CTD 924 (ВОГ-7)

288.	Passport CTD 924 (ВОГ-8)
289.	Passport CTD 924 (ВОГ-9)
290.	Photo CTD 924 (ВОГ-8)
291.	Photo -1 CTD 924 (ВОГ-9)
292.	Photo -2 CTD 924 (ВОГ-9)
293.	Passport of the electricity meter AIR-3-AL-C8-T plant № 01 005 047
294.	Protocol of the checking electricity meter AIR-3-AL-C8-T dated 19.12.2008
295.	Technical passport of the checking electricity meter AIR-3-AL-C8-T dated 3.04.2009
296.	Photo 1 AIR-3-AL-C8-T BOE-1
297.	Photo 2 AIR-3-AL-C8-T BOE-1
298.	Photo 3 AIR-3-AL-C8-T BOE-1
299.	Passport of the electricity meter AIR-3-AL-C8-T plant № 01 005 043
300.	Protocol of the checking electricity meter AIR-3-AL-C8-T dated 17.11 2008
301.	Technical passport of the checking electricity meter AIR-3-AL-C8-T dated02.04.2009
302.	Photo 1 AIR-3-AL-C8-T BOE-2
303.	Photo 2 AIR-3-AL-C8-T BOE-2
304.	Photo 3 AIR-3-AL-C8-T BOE-2
305.	Attestation Certificate of the laboratory ПСК ОПЗ dated 15.07.2010 registration number 06544-5-3-102-ВЛ issued by Ministry of Industrial Politics of Ukraine
306.	Letter of Endorsement JI dated 02.08.2010 №1149/23/7 NEIA
307.	Order JSC «OPP» dated 19.07.2010 № 282 On the monitoring group creation
308.	Article in the newspaper «Comersant» dated 15.12.2009
309.	Report JSC «OPP» on the atmospheric air for 2009 (Form 2 ТП air)

310.	Methodology of the ammonia production
311.	Methodology of the urea production
312.	Permit №453.01.51-45.21.1 on the start of works of the technical department Mizhnnaglyadohoronpratsi dated 14.11 2001 Letter of the Land management Derzhnaglyadohoronpratsi dated 26.11 2001 №147 (1_1 start)
313.	Act of the working commission on the acceptance in the operation «utilization boiler unit КУП-2500М and workshop communications dated 28.02.2002 (1_1_end)
314.	Protocol of technical specialist meeting of the OPP dated 25.03.2003 (1_2 start)
315.	Protocol of technical specialist meeting of the OPP dated 25.03.2004 (1_2_end)
316.	Protocol of technical specialist meeting of the OPP dated 18.01.2001 (2_1 start)
317.	Act of guarantee trial of the equipment dated 1.10.2002 г. (2_1_end)
318.	Protocol of technical specialist meeting of the OPP on commissioning complect of the inner devices dated 13.12.2002 (2_2 start)
319.	Act of guarantee trial of the equipment dated 3.10.2003 г. (2_2_end)
320.	Protocol of technical specialist meeting of the OPP dated 12.07.2002 (2_3 start)
321.	Act of installation dated 15.07.2002 г. (2_3_ end)
322.	Protocol of technical specialist meeting of the OPP dated 9.12.2002 (2_4 start)
323.	Акт о качестве монтажа сосуда (апарата) от 21.07.03 г. (2_4_ end)
324.	Act of installation dated 15.07.2002 г. (2_3_ end) 21.07.2003 г. (2_4_ end)
325.	Protocol of technical specialist meeting of the OPP dated 24.03.2005 г. №16 (2_5-2_6_start)
326.	Protocol of technical specialist meeting of the OPP dated 14.10.2008 г (2_5_end)
327.	Protocol of technical specialist meeting of the OPP dated 5.12.2006 г. (2_6_end)
328.	Protocol of technical specialist meeting of the OPP dated 9.01.2004 г. (3_1 start)
329.	Act of acceptance dated 15.11.2004 (3_1 end)
330.	Protocol of technical specialist meeting of the OPP dated 2.12.2004 г. (3_2 start)

331.	Act of acceptance dated 14.11.2005 (3_2 end)
332.	Protocol of technical specialist meeting of the OPP dated 6.02.2004 г. (3_3 start)
333.	Act of acceptance dated 20.11.2004 (3_3 end)
334.	Protocol of trial dated 19.11.2004 (3_3 end)
335.	Protocol of technical specialist meeting of the OPP dated 20.12.2004 г. № 75 (3_4 start)
336.	Act of acceptance dated 4.11.2005 (3_4 end)
337.	Protocol of trial dated 4.11.2005 г. (3_4 end)
338.	Protocol of technical specialist meeting of the OPP dated 20.01.2005 г. (3_5 start)
339.	Act of acceptance dated 25.12.2006 (3_5 end)
340.	Protocol of technical specialist meeting of the OPP dated 14.02.2008 г. № 4/1 (3_6 start)
341.	Act of acceptance dated 25.11.2009 (3_6 end)
342.	Protocol of technical specialist meeting of the OPP dated 23.12.2005 г. № 88 (3_7, 3_8 start)
343.	Act of acceptance dated 26.06.2008 г. (3_7 end)
344.	Act of acceptance dated 30.12.2008 г. (3_8 end)
345.	Protocol of technical specialist meeting of the OPP dated 20.05.2008 г. (3_9 start)
346.	Act of acceptance dated 14.04.2010 (3_9 end)
347.	Passport of the splashcatcher 403F (п 3..2)
348.	Passport of the splashcatcher 403F (п 3.1)
349.	Passport of the condensator E 303A (п 2.5.)
350.	Passport of the condensator E 303A (п 2.6.)
351.	Passport КУП-2.6-1.8-230 (п 1.2)
352.	Passport КУП 2500М (п 1.1)
353.	Passport for internal equipment (п 2.1)

354.	Passport for internal equipment (п 2.2)
355.	Passport reactor of flaming gasses burning (п 2.3)
356.	Passport reactor of flaming gasses burning (п 2.4)
357.	Passport reservoir (п 3.3.)
358.	Passport reservoir (п 3.4.)
359.	Passport separator 404 F (п.3.1)
360.	Passport separator 404 F (п.3.2)
361.	Passport separator S 201 (п.2.6)
362.	Passport heat exchanger 401C (п 3.1)
363.	Passport heat exchanger 401C (п 3.2)
364.	Passport heat exchanger E 751A(п 2.5)
365.	Passport heat exchanger E 751A (п 2.5)
366.	Passport stabilization К-2 (п 2.6)
367.	Passport stabilization К-1(п 2.5)
368.	Compressor documentation (п.3.7.)
369.	Compressor documentation (п.3.8.)
370.	Documentation on the reforming furnace (п.3.9.)

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/	Fedchun Oleksandr – Head Engineer;
/2/	Maksymenko Vladyslav – Head Metrologist;
/3/	Sisoyev Oleksiy – Head of Environmental and Labor Safety Department
/4/	Vakeryak Volodymyr – Head of the Economics Department;
/5/	Shnaydruk Mykola – Deputy Head of Productional-Technical Department;

/6/	Dyshlevoy Oleksandr – Deputy Head of the Electrical workshop;
/7/	Gorlovych Mykola – Head of the Training Departement;
/8/	Korsun Oleg – head of the Innovation sector;
/9/	Kiminchidzhi Stepan – Member of the Yuzhne City Hall Executive Board;
/10/	Sevastyanov Valeryi – deputy of the Yuzhne City Hall – Head of the Deputy Commission on the deputy activity, Procedure, local administration development, legal rights and mass media;
/11/	Ablyamitov Nusret – deputy of Yuznhe City Hall – Head of the Deputy Commission on the common property management, construction, transport and connection;
/12/	Khalabuzar Victor – representative of the «RETON SOLUTION LLP», project manager

APPENDIX A: "REALISATION OF A COMPLEX OF ENERGY SAVING ACTIVITIES AT THE JSC "ODESSA PORT PLANT" PROJECT OF JSC “ODESSA PORT PLANT” VERIFICATION PROTOCOL

DVM Paragraph	Check Item	Initial finding	Action requested to project participants	Review of project Participants’ action	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?	CAR 1. There is no sign of the project approval byt the Parties involved.			
91	Are all the written project approvals by Parties involved unconditional?	See CAR 1.			
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?	CAR 2. Please provide the list of implemented measures during the monitoring period in the MR. List should include measures that were implemented only during defined time.	Corrected in the second version of the Monitoring report		
93	What is the status of operation of the project during the monitoring period?	Project was operational for the complete monitoring period except for the technological accidents, which all are listed in the MR section B.2.5.			
Compliance with monitoring plan					
94	Did the monitoring occur in accordance with	Yes, monitoring			

DVM Paragraph	Check Item	Initial finding	Action requested to project participants	Review of project Participants' action	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?	occurs 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.			
95 (a)	For calculating the emission reductions or enhancements of net removals, were key factors, e.g. those listed in 23 (b) (i)-(vii) above, influencing the baseline emissions or net removals and the activity level of the project and the emissions or removals as well as risks associated with the project taken into account, as appropriate?	All key factors influencing the baseline emissions or net removals and the activity level of the project and the emissions or removals as well as risks associated with the project were taken into account, as appropriate for calculating the emission reductions or enhancements of net removals			
95 (b)	Are data sources used for calculating emission reductions or enhancements of net removals clearly identified, reliable and transparent?	Yes, data sources used for calculating emission reductions or enhancements of net removals are clearly identified, reliable and transparent. The			

DVM Paragraph	Check Item	Initial finding	Action requested to project participants	Review of project Participants' action	Conclusion
		data sources are monthly technical and production plant reports, National Cadastre of Ukraine and IPCC Guidelines for National Greenhouse Gas Inventories.			
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, if 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.			
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			
Applicable to bundled JI SSC projects only					
97 (a)	Has the composition of the bundle not	N/a			

DVM Paragraph	Check Item	Initial finding	Action requested to project participants	Review of project Participants' action	Conclusion
	changed from that is stated in F-JI-SSCBUNDLE?				
97 (b)	If the determination was conducted on the basis of an overall monitoring plan, have the project participants submitted a common monitoring report?	N/a			
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			
Revision of monitoring plan					
Applicable only if monitoring plan is revised by project participant					
99 (a)	Did the project participants provide an appropriate justification for the proposed revision?	N/a			
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			
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, the implementation of data collection procedures is in accordance with the monitoring plan, including the quality control and quality			

DVM Paragraph	Check Item	Initial finding	Action requested to project participants	Review of project Participants' action	Conclusion
		assurance procedures.			
101 (b)	Is the function of the monitoring equipment, including its calibration status, is in order?	CAR 3. Please correct the serial number for pressure transformer STG-674. CAR 4. If the resistance termotransformer was installed only in 2010 how the Section of heat (steam) energy measurements at the input of urea production unit #1 (SHM-3) was working before the installation? CAR 5. If the resistance termotransformer was installed only in 2010 how the Section of heat (steam) energy measurements at the input of urea production unit #2 (SHM-4) was working before the installation? CAR 6. If the	CAR 3. Corrected in the second version of the Monitoring report CAR 4, CAR 5 and CAR 6. Before 2010 the same measuring devices, indicated in the tables of the monitoring report, were installed. During the last calibration it was revealed that these measuring devices require a repair. After the repair, these measuring devices were calibrated and had their new passport issued. At the moment of these measuring equipment repair, the calibrated reserved measuring devices were installed.		

DVM Paragraph	Check Item	Initial finding	Action requested to project participants	Review of project Participants' action	Conclusion
		pressure difference meter STD-930 SHM-12 B was installed only in 2008 how SHM-12 B was functioning before that? CAR 7. Please correct the calibration and identification number for gas meters at GMS-6, GMS-7, GMS-8 and GMS-9.	CAR 7. Measuring equipment of GMS-6, GMS-7, GMS-8 and GMS-9 is flow sensors, therefore the information stated in the monitoring report table refers directly to these sensors. Another information about GMS-6, GMS-7, GMS-8 and GMS-9, stated earlier is for information only.		
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. CL 1. Please clarify where the data is stored?	The monitoring data is archived and kept in the production technical department.		
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			
Verification regarding programs of activities (additional elements for assessment)					
102	Is any JPA that has not been added to the JI PoA not verified?	N/a			

DVM Paragraph	Check Item	Initial finding	Action requested to project participants	Review of project Participants' action	Conclusion
103	Is the verification based on the monitoring reports of all JPAs to be verified?	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			
104	Does the monitoring period not overlap with previous monitoring periods?	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			
Applicable to sample-based approach only					
106	Does the sampling plan prepared by the AIE: (a) Describe its sample selection, taking into account that: (i) For each verification that uses a sample-based approach, the sample selection shall be sufficiently representative of the JPAs in the JI PoA such extrapolation to all JPAs identified for that verification is reasonable, taking into account differences among the characteristics of JPAs, such as: − The types of JPAs; − The complexity of the applicable technologies and/or measures used; − The geographical location of each JPA; − The amounts of expected emission reductions of the JPAs being verified; − The number of JPAs for which emission reductions are being verified; − The length of monitoring periods of the JPAs being verified; and − The samples selected for prior verifications, if any?	N/a			

DVM Paragraph	Check Item	Initial finding	Action requested to project participants	Review of project Participants' action	Conclusion
107	Is the sampling plan ready for publication through the secretariat along with the verification report and supporting documentation?	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			
109	Is the sampling plan available for submission to the secretariat for the JISC.s ex ante assessment? (Optional)	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			

APPENDIX B: VERIFICATION TEAM

Oleg Skoblyk, Specialist (Power Management)
Climate Change Lead Verifier
Bureau Veritas Ukraine HSE Department project manager.

Oleg Skoblyk has graduated from National Technical University of Ukraine 'Kyiv Polytechnic University" with specialty Power Management. He has successfully completed IRCA registered Lead Auditor Training Course for Environment Management Systems and Quality Management Systems. Oleg Skoblyk has undergone intensive training on Clean Development Mechanism /Joint Implementation and he is involved in the determination/verification of 9 JI projects.

Kateryna Zinevych, M.Sci. (environmental science)
Climate Change Lead Verifier
Bureau Veritas Ukraine Health, Safety and Environment Project Manager

Kateryna Zinevych has graduated from National University of Kyiv-Mohyla Academy with the Master Degree in Environmental Science. She has experience at working in a professional position (analytics) involving the exercise of judgment, problem solving and communication with other professional and managerial personnel as well as customers and other interested parties at analytical centre "Dergzovnishinform" and "Burea Veritas Ukraine" LLC. She has successfully completed IRCA registered Lead Auditor Training Course for Environment Management Systems and Quality Management Systems. She has successfully completed Climate Change Verifier Training Course and she participated as verifier in the determination/verification of 26 JI projects.

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

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

Acting CEO Bureau Veritas Black Sea District

He has over 25 years of experience in Research Institute in the field of biochemistry, biotechnology, and microbiology. He is a Lead auditor of Bureau Veritas Certification for Environment Management System (IRCA registered), Quality Management System (IRCA registered), Occupational Health and Safety Management System, and Food Safety Management System. He performed over 140 audits since 1999. Also he is Lead Tutor of the IRCA registered ISO 14000 EMS Lead Auditor Training Course, and Lead Tutor of the IRCA

registered ISO 9000 QMS Lead Auditor Training Course. He is Lead Tutor of the Clean Development Mechanism /Joint Implementation Lead Verifier Training Course and he was involved in the determination/verification over 60 JI/CDM projects.