



# DETERMINATION REPORT CLIMATE PROTECTION BUREAU LLP

## DETERMINATION OF THE REALIZATION OF A COMPLEX OF ENERGY SAVING ACTIVITIES AT PJSC "ROSAVA"

REPORT NO. UKRAINE-DET/0780/2012

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BUREAU VERITAS CERTIFICATION



DETERMINATION REPORT

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| Client:<br>Climate Protection Bureau LLP | Client ref.:<br>Viktor Khalabuzar                                |

**Summary:**  
 Bureau Veritas Certification has made the determination of the Realization of a complex of energy saving activities at PJSC "ROSAVA" project of Climate Protection Bureau LLP located in Bila Tserkva Town, Kyiv Region, Ukraine 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 determination scope is defined as an independent and objective review of the project design document, the project's baseline study, monitoring plan and other relevant documents, 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 determination report and opinion. The overall determination, from Contract Review to Determination Report & Opinion, was conducted using Bureau Veritas Certification internal procedures.

The first output of the determination process is a list of Clarification and Corrective Action Requests (CL and CAR), presented in Appendix A. Taking into account this output, the project proponent revised its project design document.

In summary, it is Bureau Veritas Certification's opinion that the project correctly applies Guidance on criteria for baseline setting and monitoring and meets the relevant UNFCCC requirements for the JI and the relevant host country criteria.

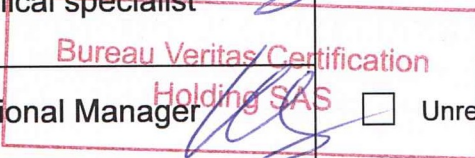
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## INTRODUCTION

Climate Protection Bureau LLP has commissioned Bureau Veritas Certification to determine its JI project Realization of a complex of energy saving activities at PJSC “ROSAVA” (hereafter called “the project”) at Bila Tserkva town, Kyiv Region, Ukraine.

This report summarizes the findings of the determination 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

The determination serves as project design verification and is a requirement of all projects. The determination is an independent third party assessment of the project design. In particular, the project's baseline, the monitoring plan (MP), and the project's compliance with relevant UNFCCC and host country criteria are determined in order to confirm that the project design, as documented, is sound and reasonable, and meets the stated requirements and identified criteria. Determination is a requirement for all JI projects and is seen as necessary to provide assurance to stakeholders of the quality of the project and its intended generation of emission reduction units (ERUs).

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 determination 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 determination 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 design.

### 1.3 Determination team

The determination team consists of the following personnel:

Kateryna Zinevych  
Bureau Veritas Certification Team Leader, Climate Change Verifier

Vyacheslav Yeriomin  
Bureau Veritas Certification Climate Change Verifier



Denis Pishchalov  
Bureau Veritas Certification, Financial specialist

This determination report was reviewed by:

Ivan Sokolov  
Bureau Veritas Certification, Internal reviewer

H.B.Muralidhar  
Bureau Veritas Certification, technical specialist

## **2 METHODOLOGY**

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

In order to ensure transparency, a determination 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 determination and the results from determining the identified criteria. The determination protocol serves the following purposes:

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

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

### **2.1 Review of Documents**

The Project Design Document (PDD) submitted by Climate Protection Bureau LLP and additional background documents related to the project design and baseline, i.e. country Law, Guidelines for users of the joint implementation project design document form, Approved CDM methodology and/or Guidance on criteria for baseline setting and monitoring, Kyoto Protocol, Clarifications on Determination Requirements to be Checked by an Accredited Independent Entity were reviewed.

To address Bureau Veritas Certification corrective action and clarification requests, Climate Protection Bureau LLP revised the PDD and resubmitted it on 12/11/2012.





The determination findings presented in this report relate to the project as described in the PDD version(s) 01, 02, 03, 04.

## 2.2 Follow-up Interviews

On 01/11/2012 Bureau Veritas Certification performed on-site interviews with project stakeholders to confirm selected information and to resolve issues identified in the document review. Representatives of Climate Protection Bureau LLP, PJSC "ROSAVA" were interviewed (see References). The main topics of the interviews are summarized in Table 1.

**Table 1 Interview topics**

| Interviewed organization                        | Interview topics  |
|---|---|
| PJSC "ROSAVA"                                   | <ul style="list-style-type: none"> <li>➤ Project history</li> <li>➤ Project approach</li> <li>➤ Project boundary</li> <li>➤ Implementation schedule</li> <li>➤ Organizational structure</li> <li>➤ Responsibilities and authorities</li> <li>➤ Training of personnel</li> <li>➤ Quality management procedures and technology</li> <li>➤ Rehabilitation/Implementation of equipment (records)</li> <li>➤ Metering equipment control</li> <li>➤ Metering record keeping system, database</li> <li>➤ Technical documentation</li> <li>➤ Monitoring plan and procedures</li> <li>➤ Permits and licenses</li> <li>➤ Local stakeholder's response.</li> </ul> |
| CONSULTANT:<br>Climate Protection<br>Bureau LLP | <ul style="list-style-type: none"> <li>➤ Baseline methodology</li> <li>➤ Monitoring plan</li> <li>➤ Additionality proofs</li> <li>➤ Calculation of emission reduction.</li> </ul>   |

## 2.3 Resolution of Clarification and Corrective Action Requests

The objective of this phase of the determination 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 project design.

If the determination team, in assessing the PDD and supporting documents, identifies issues that need to be corrected, clarified or improved with regard to JI project requirements, it will raise these issues and inform the project participants of these issues in the form of:



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(a) Corrective action request (CAR), requesting the project participants to correct a mistake in the published PDD that is not in accordance with the (technical) process used for the project or relevant JI project requirement or that shows any other logical flaw;

(b) Clarification request (CL), requesting the project participants to provide additional information for the determination team to assess compliance with the JI project requirement in question;

(c) Forward action request (FAR), informing the project participants of an issue, relating to project implementation but not project design, that needs to be reviewed during the first verification of the project.

The determination 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 determination.

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

### **3 PROJECT DESCRIPTION**

PJSC “ROSAVA” is the greatest tyre manufacturer in Ukraine, one of the leading companies in CIS countries on the quality of manufactured product. PJSC “ROSAVA” is high tech and socially responsible company which uses up-to-date standards and management principles.

The main activity of the company is tyres manufacturing under the “ROSAVA” trademark. One of the trends of its development is off-take projects (production of tyres for foreign customers from Germany, Turkey, Great Britain, Russia and others).

PJSC “ROSAVA” is located in south-eastern part of Bila Tserkva city, 80 km distance from Kyiv. Convenient geographical location of the company, presence of railway and Kyiv-Odessa highway ensure prompt delivery of tyres to customers in Ukraine and to foreign partners.

Wide range of tyres, more than 150 sizes, are manufactured for passenger cars, light trucks, trucks, agricultural and road building vehicles.

Tyres for passenger cars are manufactured in economy segment with marks BC and БЦ, and since 2006 in medium segment. Medium class tyres are exported to 36 countries of the world. In Ukraine they are widely used by owners of foreign cars of B and C classes. About 60% of total volume of all tyres range is sold in domestic market, the rest tyres are



exported to more than 60 countries in Europe, Asia, Africa, North and South America as well as CIS countries.

Before the starting date of the project there was almost no complex modernization of the technological equipment at PJSC "ROSAVA", which is caused by the high price of the performed works and lack of straightforward governmental policy, which could demand decreasing of the green house gases emission to the atmosphere.

The history of the project started with the decision on main production site modernization (Order # 10 dated 10/02/2000 issued by the Head of the Ventilation and Supply Lines Shop (V&SL Shop). The order was the incentive to start the works on mounting the waste heat utilization system with its further usage for heating the main production site premises and in the production process.

The implementation of production process modernization activities resulted in reduction of specific electricity and heat consumption in the production process that allowed to decrease the amount of electricity consumed from the Ukrainian Electricity Transmission Grid (hereinafter – UETG) and heat needed for goods manufacturing. Specific electricity and heat consumption reduction will allow to decrease the amount of electricity and heat consumed during the production process, leading to the reduction of fossil fuel used for electricity and heat generation and thus resulting in GHGs reduction at Ukrainian power engineering enterprises. The reduction of fossil fuel amount consumed for electricity and heat generation will lead to GHGs reduction.

JI project "Realization of a complex of energy saving activities at PJSC "ROSAVA" implementation was initiated in 2000, taking into account the possibility of Kyoto mechanisms funds involvement.

Without JI project activity the baseline for PJSC "ROSAVA" would involve production equipment maintenance leaving specific energy resources consumption on the same level as before the project activity implementation and thus without reducing GHGs emissions into the atmosphere.

Project activities are aimed at improvement in power efficiency of the plant by the implementation of 2 subprojects:

**1. Implementation of energy efficiency measures and modernization of technological equipment on the main production site** is aimed at establishing of high-efficient equipment and optimization of technological processes, which will allow to reduce the electricity and heat consumption in tyres production at the main production site. Reduction of electric energy consumption in tyres production at the main production site will allow to reduce energy consumption from Ukrainian Electricity Transmission Grid (hereinafter – UETG), which will result in decrease of fuel consumption for energy production and, correspondingly,





reduction in greenhouse gas emissions at the power plants of Ukraine. Reduction of heat consumption in tyres production will allow to decrease fuel consumption for energy production and, correspondingly, reduction in greenhouse gas emissions.

**2. Implementation of energy efficiency measures and modernization of technological equipment on the site of heavy tyres production** is aimed at establishing of high-efficient equipment and optimization of technological processes, which will allow to reduce the consumption of electricity and heat in heavy tyres production. Reduction of electric energy consumption will allow to reduce energy consumption from UETG, which will result in decrease of fuel consumption for energy production and, correspondingly, reduction in greenhouse gas emissions at the power plants of Ukraine. Reduction of heat consumption in tyres production will allow to decrease fuel consumption for energy production and, correspondingly, reduction in greenhouse gas emissions.

The implementation of scheduled activities on decrease of energy efficiency of the PJSC "ROSAVA" production will lead to the reduction of electricity and heat consumption in rubber technical goods production leading to the reduction of GHG emissions into the atmosphere.

Outstanding issues related to the project description are presented in the Determination protocol in Appendix A below (please see CARs 01-04 and CLs 01, 02).

#### **4 DETERMINATION CONCLUSIONS**

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

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

The Clarification and Corrective Action Requests are stated, where applicable, in the following sections and are further documented in the Determination Protocol in Appendix A. The determination of the Project resulted in 34 Corrective Action Requests and 11 Clarification Requests.

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

##### **4.1 Project approvals by Parties involved (19-20)**

Letters of Approval have not been received yet, which is the subject to CAR 05 in the Appendix A below. Meanwhile State Environmental Investment Agency of Ukraine has issued Letter of Endorsement #2689/23/7 issued 20/09/2012.



## 4.2 Authorization of project participants by Parties involved (21)

The participation for each of the legal entities listed as project participants in the PDD is authorized by a Party involved, which is also listed in the PDD, through a written project approval by a Party involved, explicitly stating the name of the legal entity. Though Letters of Approval are not received yet, which is the subject to CAR 05 in the Appendix A below.

## 4.3 Baseline setting (22-26)

The PDD explicitly indicates that using a methodology for baseline setting and monitoring developed in accordance with appendix B of the JI guidelines (hereinafter referred to as JI specific approach). Specific elements of "Combined tool to identify the baseline scenario and demonstrate additionality" are used as the selected approach for identifying the baseline.

The PDD provides a detailed theoretical description in a complete and transparent manner, as well as justification, that the baseline is established:

- (a) By listing and describing the following plausible future scenarios on the basis of conservative assumptions and selecting the most plausible one:

1. Continuation of current situation at the plant without energy efficiency improvement activities improving power efficiency
2. Performance of Project activities implementation without joint implementation mechanisms.

After the fulfilling the three steps of the baseline identification (Identification of plausible realistic and efficient alternatives, Elimination of alternatives that do not comply with active legislations and regulations, Elimination of alternatives that include barriers for their achievement) only one realistic plausible scenario was chosen, i.e. continuation of current situation at the plant without energy efficiency improvement activities envisaged by the project (alternative 1), and thus, it is the baseline of the proposed joint implementation project. The alternative 2 was set aside at step of elimination of alternatives that include barriers for their achievement, as there are too many barriers (technical and financial) for its implementation.

- (b) Taking into account relevant national and/or sectoral policies and circumstances, such as sectoral reform initiatives, local fuel availability, power sector expansion plans, and the economic situation in the project sector. In this context, the following key factors that affect a baseline are taken into account:
- a. According to Ukrainian legislation there is no governmental policy or decision which demands lowering the amount of green house gases emitted. Meanwhile the plants are obliged to obtain the licences for the water usage, waste management or air pollution;
  - b. High prices for the works and equipment prevent plants such as PJSC "ROSAVA" from production modernization;



- c. This project's implementation requires great financial investment and limits access to the capital;
- d. New complicated project equipment is supposed to be introduced. In order to reach targets for energy efficiency high-skilled labor is deeply required;
- e. Prices for the natural gas keep going up with each year.

Outstanding issues related to the baseline setting are presented in the Determination protocol in Appendix A below (please see CARs 06-16 and CLs 03, 04).

#### **4.4 Additionality (27-31)**

The most recent version 06.1.0. of the "Tool for the demonstration and assessment of additionality" approved by the CDM Executive Board was used. All explanations, descriptions and analyses are made in accordance with the selected tool.

The PDD provides a justification of the applicability of the approach with a clear and transparent description, as per item 4.3 above.

As mentioned in section B.1 of the PDD version 04, two more activities were determined to the project scenario:

- 1 Continuation of current situation at the plant without energy efficiency improvement activities;
- 2 Project activities implementation without joint implementation mechanisms.

Both of the alternatives comply with current Ukrainian legislation. Investment analysis is chosen for the assessment of additionality. With application benchmark analysis and sensitivity analysis it was established that without using joint implementation mechanism project is investment unattractive, while using joint implementation mechanism allows increasing its financial attractiveness.

Project is first of its kind since there are no other projects in Ukraine envisaging implementation of energy efficiency activities at the enterprises producing tyres.

Additionality is demonstrated appropriately as a result of the analysis using the approach chosen.

Outstanding issues related to additionality are presented in the Determination protocol in Appendix A below (please see CARs 17-22 and CL 05).

#### **4.5 Project boundary (32-33)**

The project boundaries encompass emissions that refer to electricity and heat consumption in production process.

Geographical boundaries of the project encompass physical (geographic) location of the emissions source. Project boundaries coincide with physical boundaries of PJSC "ROSAVA" and power engineering enterprises that produce electricity and heat for



PJSC “ROSAVA” production and heating needs. AES Kyivoblenergo PJSC is the supplier of electricity to PJSC “ROSAVA”, Bilotserkivska TPP PJSC and plant boiler-house produce heat for heating needs of the enterprise. The project boundaries encompass the region where these enterprises are located.

Emission sources of the project within baseline and project scenarios are power engineering enterprises of Ukraine that produce electricity and heat for PJSC “ROSAVA” production and heating needs, and also plant boiler-house generating heat for heavy tyres production.

The project boundary defined in the PDD, encompasses all anthropogenic emissions by sources of greenhouse gases (GHGs) that are:

- (i) Under the control of the project participants (all the project and baseline emissions);
- (ii) Reasonably attributable to the project (emissions produced by the plant equipment which consumes electricity and heat, emissions generated by the own boiler house of the PJSC “ROSAVA”); and
- (iii) Significant – all the project and baseline emissions are considered to be significant.

The delineation of the project boundary and the gases and sources included are appropriately described and justified in the PDD.

Outstanding issues related to the project boundary are presented in the Determination protocol in Appendix A below (please see CAR23, CAR 24).

#### **4.6 Crediting period (34)**

The PDD states the starting date of the project as the date on which the implementation or construction or real action of the project will begin or began, and the starting date is 10/02/2000, which is after the beginning of 2000.

The PDD states the expected operational lifetime of the project in years and months, which is 17 years and 204 months.

The PDD states the length of the crediting period in years and months, which is 5 years and 60 months, and its starting date as 01/01/2008, which is after the date the first emission reductions or enhancements of net removals are generated by the project.

During the period from 01 January 2004 till 31 December 2007 the assigned amount units (AAUs) will be generated, the duration of the period is 4 years (48 months).

The PDD states that the crediting period for the issuance of ERUs starts only after the beginning of 2008 and does not extend beyond the operational lifetime of the project.



The PDD states that the extension of its crediting period beyond 2012 is subject to the host Party approval, and the estimates of emission reductions or enhancements of net removals are presented separately for those until 2012 and those after 2012 in all relevant sections of the PDD.

Outstanding issues related to the crediting period are presented in the Determination protocol in Appendix A below (please see CAR25, CAR 26 and CL06).

#### **4.7 Monitoring plan (35-39)**

The PDD, in its monitoring plan section, explicitly indicates that JI specific approach was the selected.

The monitoring plan describes all relevant factors and key characteristics that will be monitored, and the period in which they will be monitored, in particular also all decisive factors for the control and reporting of project performance, such as:

- field policy and legislation (were used several statements from the Ukrainian legislation in the area of calibration of the measuring equipment (Law of Ukraine #113/98-BP "On metrology and metrological activity" dated 11/02/1998;
- technology availability (as per the project new technologically complicated equipment is used; in order to meet planned energy efficiency targets this equipment needs high-skilled labor).

The monitoring plan specifies the indicators, constants and variables that are reliable (i.e. provide consistent and accurate values), valid (i.e. are clearly connected with the effect to be measured), and that provide a transparent picture of the emission reductions or enhancements of net removals to be monitored.

The monitoring plan draws on the list of standard variables indicated in appendix B of "Guidance on criteria for baseline setting and monitoring" developed by the JISC, as appropriate (electricity consumption in rubber compounds processing on the main production site, indirect specific CO<sub>2</sub> emission factor for electricity consumption by the 1 class of consumers, heat consumption in rubber compounds processing on the main production site, heat generation energy efficiency (CEE), carbon oxidation factor during natural gas combustion, carbon emission factor during natural gas combustion, electricity consumption in rubber compounds processing in heavy tyres production, heat consumption in rubber compounds processing in heavy tyres production, specific electricity consumption in rubber compounds processing on the main production site, amount of processed rubber compounds on the main production site, specific heat consumption in rubber compounds processing on the main production site, specific electricity consumption in rubber compounds processing in heavy tyres production, amount of processed rubber compounds in heavy tyres production, specific heat consumption in rubber compounds processing in heavy tyres production).

The monitoring plan explicitly and clearly distinguishes:





(i) Data and parameters that are not monitored throughout the crediting period, but are determined only once (and thus remain fixed throughout the crediting period), and that are available already at the stage of determination, such as (specific electricity consumption in rubber compounds processing on the main production site, specific heat consumption in rubber compounds processing on the main production site, specific electricity consumption in rubber compounds processing in heavy tyres production, specific heat consumption in rubber compounds processing in heavy tyres production).

(ii) Data and parameters that are not monitored throughout the crediting period, but are determined only once (and thus remain fixed throughout the crediting period), but that are not already available at the stage of determination, such as (not applicable).

(iii) Data and parameters that are monitored throughout the crediting period, such as (electricity consumption in rubber compounds processing on the main production site, indirect specific CO<sub>2</sub> emission factor for electricity consumption by the 1 class of consumers, heat consumption in rubber compounds processing on the main production site, heat generation energy efficiency (CEE), carbon oxidation factor during natural gas combustion, carbon emission factor during natural gas combustion, electricity consumption in rubber compounds processing in heavy tyres production, heat consumption in rubber compounds processing in heavy tyres production, amount of processed rubber compounds on the main production site, amount of processed rubber compounds in heavy tyres production).

The monitoring plan describes the methods employed for data monitoring (including its frequency) and recording. Technical personnel read the monitored data which are subject to measurements from the relevant measurement equipment and make relevant notes in the technological registers. General data on energy resources consumption and amount of processed rubber compounds during a month is given in monthly reports according to the section D. 2 of the PDD version 04 ("Distribution of the received energy recourses", "Report on production and economic activity of the preparation shop", "Report on production and economic activity of the preparation shop of the SHTP"), which are the documents of official accounting. Monthly reports are archived in electronic and paper forms at thereof monitoring team.

The monitoring plan elaborates all algorithms and formulae used for the estimation/calculation of baseline emissions/removals and project emissions/removals or direct monitoring of emission reductions from the project, leakage, as appropriate.

### ***Project Emissions***

$$PE_y = PE_{\text{main site, } y} + PE_{\text{heavy tyres, } y},$$

where

PE<sub>y</sub> – total project emission levels, t CO<sub>2e</sub>;

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$PE_{\text{main site, y}}$  – emissions caused by the electric and heat energy consumption in rubber compounds processing on the main production site, t CO<sub>2e</sub>;

$PE_{\text{heavy tyres, y}}$  – emissions caused by the electric and heat energy consumption in heavy tyres production, t CO<sub>2e</sub>.

Emissions are calculated for each of the proposed subprojects separately.

**1. Implementation of energy efficiency measures and modernization of technological equipment on the main production site.**

$$PE_{\text{main site, y}} = PE_{\text{elec PC, main site, y}} + PE_{\text{heat PC, main site, y}}$$

where

$PE_{\text{main site, y}}$  – emissions caused by the electric and heat energy consumption in rubber compounds processing on the main production site, t CO<sub>2e</sub>;

$PE_{\text{elec PC, main site, y}}$  – project emissions caused by the electric energy consumption in rubber compounds processing on the main production site, t CO<sub>2e</sub>;

$PE_{\text{heat PC, main site, y}}$  – project emissions caused by the heat energy consumption in rubber compounds processing on the main production site, t CO<sub>2e</sub>.

$PE_{\text{elec PC, main site, y}}$  is calculated by the following formula:

$$PE_{\text{elec PC, main site, y}} = EC_{\text{main site, PC}} \cdot EF_{\text{co2, elec}}$$

where

$PE_{\text{elec PC, main site, y}}$  – project emissions caused by the electric energy consumption in rubber compounds processing on the main production site, t CO<sub>2e</sub>;

$EC_{\text{main site, PC}}$  – project electricity consumption in rubber compounds processing on the main production site, MWh;

$EF_{\text{co2, elec}}$  – indirect specific CO<sub>2</sub> emission factor for electricity consumption by the 1 class of consumers, t CO<sub>2eq</sub>/MWh.

$PE_{\text{heat PC, main site, y}}$  is calculated by the following formula:

$$PE_{\text{heat PC, main site, y}} = 4,1868 \cdot HC_{\text{main site, PC}} \cdot EF_{\text{co2, NG}} / \eta$$

where

$PE_{\text{heat PC, main site, y}}$  – project emissions caused by the heat energy consumption in rubber compounds processing project scenario on the main production site, t CO<sub>2e</sub>;

$HC_{\text{main site, PC}}$  – project heat consumption in rubber compounds processing on the main production site, Tcal;

$EF_{\text{co2, NG}}$  – CO<sub>2</sub> emission factor from natural gas combustion, t CO<sub>2e</sub>/TJ;

$\eta$  – heat generation energy efficiency (CEE);

4,1868 – coefficient for Tcal recalculation into TJ.

$EF_{\text{co2, NG}}$  is calculated by the following formula:

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$$EF_{\text{co}_2, \text{NG}} = \text{OXID}_{\text{NG}} \cdot W_{\text{NG}} \cdot 44/12,$$

where

$EF_{\text{co}_2, \text{NG}}$  – CO<sub>2</sub> emission factor from natural gas combustion, t CO<sub>2e</sub>/TJ;

$\text{OXID}_{\text{NG}}$  – carbon oxidation factor during natural gas combustion, mass or volume unit;

$W_{\text{NG}}$  – carbon emission factor during natural gas combustion, t C/ TJ.

44/12 – stoichiometric ratio between molecular weight of CO<sub>2</sub> and carbon., t CO<sub>2e</sub>/t C.

## 2. Implementation of energy efficiency measures and modernization of technological equipment on the site of heavy tyres production.

$$PE_{\text{heavy tyres, y}} = PE_{\text{elec PC, heavy tyres, y}} + PE_{\text{heat PC, heavy tyres, y}},$$

where:

$PE_{\text{heavy tyres, y}}$  – emissions caused by the electric and heat energy consumption in rubber compounds processing in heavy tyres production, t CO<sub>2e</sub>;

$PE_{\text{elec PC, heavy tyres, y}}$  – project emissions caused by the electric energy consumption in rubber compounds processing in heavy tyres production, t CO<sub>2e</sub>;

$PE_{\text{heat PC, heavy tyres, y}}$  – project emissions, caused by the heat energy consumption in rubber compounds processing in heavy tyres production, t CO<sub>2e</sub>.

$PE_{\text{elec PC, heavy tyres, y}}$  is calculated by the following formula:

$$PE_{\text{elec PC, heavy tyres, y}} = EC_{\text{heavy tyres, PC}} \cdot EF_{\text{co}_2, \text{elec}},$$

where:

$PE_{\text{elec PC, heavy tyres, y}}$  – project emissions caused by the electric energy consumption in rubber compounds processing in heavy tyres production, t CO<sub>2e</sub>;

$EC_{\text{heavy tyres, PC}}$  – project electricity consumption in rubber compounds processing in heavy tyres production, MWh;

$EF_{\text{co}_2, \text{elec}}$  – indirect specific CO<sub>2</sub> emission factor for electricity consumption by the 1 class of consumers, t CO<sub>2eq</sub>/MWh.

$PE_{\text{heat PC, heavy tyres, y}}$  is calculated by the following formula:

$$PE_{\text{heat PC, heavy tyres, y}} = 4,1868 \cdot HC_{\text{heavy tyres, PC}} \cdot EF_{\text{co}_2, \text{NG}} / \eta,$$

where:

$PE_{\text{heat PC, heavy tyres, y}}$  – project emissions, caused by the heat energy consumption in rubber compounds processing in heavy tyres production, t CO<sub>2e</sub>.

$HC_{\text{heavy tyres, PC}}$  – project heat consumption in rubber compounds processing in heavy tyres production, Tcal;

$EF_{\text{co}_2, \text{NG}}$  – CO<sub>2</sub> emission factor from natural gas combustion, t CO<sub>2e</sub>/TJ;

$\eta$  – heat generation energy efficiency (CEE);

4,1868 – coefficient for Tcal recalculation into TJ.

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$EF_{CO_2, NG}$  is calculated by the following formula:

$$EF_{CO_2, NG} = OXID_{NG} \cdot W_{NG} \cdot 44/12,$$

where

$EF_{CO_2, NG}$  – CO<sub>2</sub> emission factor from natural gas combustion, t CO<sub>2e</sub>/TJ;

$OXID_{NG}$  – carbon oxidation factor during natural gas combustion, mass or volume unit;

$W_{NG}$  – carbon emission factor during natural gas combustion, t C/TJ.

44/12 – stoichiometric ratio between molecular weight of CO<sub>2</sub> and carbon., t CO<sub>2e</sub>/t C.

### Baseline Emissions

$$BE_y = BE_{main\ site,\ y} + BE_{heavy\ tyres,\ y},$$

where:

$BE_y$  – total baseline emissions level, t CO<sub>2e</sub>;

$BE_{main\ site,\ y}$  – emissions caused by the electric and heat energy consumption in rubber compounds processing on the main production site, t CO<sub>2e</sub>;

$BE_{heavy\ tyres,\ y}$  – emissions caused by the electric and heat energy consumption in heavy tyres production, t CO<sub>2e</sub>.

Emissions are calculated separately for each proposed subproject:

1. *Implementation of energy efficiency measures and modernization of technological equipment on the main production site.* The following formula is used to calculate basic emissions level for this subproject:

$$BE_{main\ site,\ y} = BE_{elec\ BC,\ main\ site,\ y} + BE_{heat\ BC,\ main\ site,\ y},$$

where:

$BE_{main\ site,\ y}$  - emissions caused by the electric and heat energy consumption in rubber compounds processing on the main production site, t CO<sub>2e</sub>;

$BE_{elec\ BC,\ main\ site,\ y}$  – baseline emissions caused by the electric energy consumption in rubber compounds processing on the main production site, t CO<sub>2e</sub>;

$BE_{heat\ BC,\ main\ site,\ y}$  – baseline emissions caused by the heat energy consumption in rubber compounds processing on the main production site, t CO<sub>2e</sub>;

$BE_{elec\ BC,\ main\ site,\ y}$  is calculated by the following formula:

$$BE_{elec\ BC,\ main\ site,\ y} = EC_{main\ site,\ BC} \cdot EF_{CO_2,\ elec},$$

where

where:

$BE_{elec\ BC,\ main\ site,\ y}$  – baseline emissions caused by the electric energy consumption in rubber compounds processing on the main production site, t CO<sub>2e</sub>;

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$EC_{\text{main site, BC}}$  – baseline electricity consumption in rubber compounds processing on the main production site, MWh;

$EF_{\text{co2, elec}}$  – indirect specific  $\text{CO}_2$  emission factor for electricity consumption by the 1 class of consumers,  $\text{t CO}_{2\text{eq}}/\text{MWh}$

$EC_{\text{main site, BC}}$  is calculated by the following formula:

$$EC_{\text{main site, BC}} = SEC_{\text{elec main site}} \cdot P_{\text{main site, y}}$$

where:

$EC_{\text{main site, BC}}$  – baseline electricity consumption in rubber compounds processing on the main production site, MWh;

$SEC_{\text{elec main site}}$  – baseline specific electricity consumption in rubber compounds processing on the main production site,  $\text{MWh/t}$ ;

$P_{\text{main site, y}}$  – baseline amount of processed rubber compounds on the main production site in a year  $y$ , t.

$BE_{\text{heat BC, main site, y}}$  is calculated by the following formula:

$$BE_{\text{heat BC, main site, y}} = 4,1868 \cdot HC_{\text{main site, BC}} \cdot EF_{\text{co2, NG}} / \eta,$$

where:

$BE_{\text{heat BC, main site, y}}$  – baseline emissions caused by the heat energy consumption in rubber compounds processing on the main production site,  $\text{t CO}_{2\text{e}}$ ;

$HC_{\text{main site, BC}}$  – baseline heat consumption in rubber compounds processing on the main production site, Tcal;

$EF_{\text{co2, NG}}$  –  $\text{CO}_2$  emission factor from natural gas combustion,  $\text{t CO}_{2\text{e}}/\text{TJ}$ ;

$\eta$  – heat generation energy efficiency (CEE);

4,1868 – coefficient for Tcal recalculation into TJ.

$HC_{\text{main site, BC}}$  is calculated by the following formula:

$$HC_{\text{main site, BC}} = SEC_{\text{heat main site}} \cdot P_{\text{main site, y}}$$

where:

$HC_{\text{main site, BC}}$  – baseline heat consumption in rubber compounds processing on the main production site, Tcal ;

$SEC_{\text{heat main site}}$  – baseline specific heat consumption in rubber compounds processing on the main production site,  $\text{Tcal/t}$ ;

$P_{\text{main site, y}}$  – project amount of processed rubber compounds on the main production site in a year  $y$ , t.

$EF_{\text{co2, NG}}$  is calculated by the following formula:

$$EF_{\text{co2, NG}} = \text{OXID}_{\text{NG}} \cdot W_{\text{NG}} \cdot 44/12,$$

where:



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$EF_{CO_2,NG}$  – CO<sub>2</sub> emission factor from natural gas combustion, t CO<sub>2e</sub>/TJ;

$OXID_{NG}$  – carbon oxidation factor during natural gas combustion, mass or volume unit;

$W_{NG}$  – carbon emission factor during natural gas combustion, t C/TJ.

44/12 – stoichiometric ratio between molecular weight of CO<sub>2</sub> and carbon., t CO<sub>2e</sub>/t C.

2. *Implementation of energy efficiency measures and modernization of technological equipment on the site of heavy tyres production.* The following formula is used to calculate basic emissions level for this subproject:

$$BE_{\text{heavy tyres, } y} = BE_{\text{elec BC, heavy tyres, } y} + BE_{\text{heat BC, heavy tyres, } y},$$

where:

$BE_{\text{heavy tyres, } y}$  – emissions caused by the electric and heat energy consumption in rubber compounds processing in heavy tyres production, t CO<sub>2e</sub>;

$BE_{\text{elec BC, heavy tyres, } y}$  – baseline emissions caused by the electric energy consumption in rubber compounds processing in heavy tyres production, t CO<sub>2e</sub>;

$BE_{\text{heat BC, heavy tyres, } y}$  – baseline emissions caused by the heat energy consumption in rubber compounds processing in heavy tyres production, t CO<sub>2e</sub>;

$BE_{\text{elec BC, heavy tyres, } y}$  is calculated by the following formula:

$$BE_{\text{elec BC, heavy tyres, } y} = EC_{\text{heavy tyres, BC}} \cdot EF_{\text{co2, elec}},$$

where:

$BE_{\text{elec BC, heavy tyres, } y}$  – baseline emissions caused by the electric energy consumption in rubber compounds processing in heavy tyres production, t CO<sub>2e</sub>;

$EC_{\text{heavy tyres, BC}}$  – baseline electricity consumption in rubber compounds processing in heavy tyres production, MWh;

$EF_{\text{co2, elec}}$  – indirect specific CO<sub>2</sub> emission factor for electricity consumption by the 1 class of consumers, t CO<sub>2eq</sub>/MWh.

$EC_{\text{heavy tyres, BC}}$  is calculated by the following formula:

$$EC_{\text{heavy tyres, BC}} = SEC_{\text{elec heavy tyres}} \cdot P_{\text{heavy tyres, } y},$$

where:

$EC_{\text{heavy tyres, BC}}$  – baseline electricity consumption in rubber compounds processing in heavy tyres production, MWh;

$SEC_{\text{elec heavy tyres}}$  – baseline specific electricity consumption in rubber compounds processing in heavy tyres production, MWh/t;

$P_{\text{heavy tyres, } y}$  – the project amount of processed rubber compounds for the year y in heavy tyres production, t.

$BE_{\text{heat BC, heavy tyres, } y}$  is calculated by the following formula:



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$$BE_{\text{heat BC, heavy tyres, y}} = 4,1868 \cdot HC_{\text{heavy tyres, BC}} \cdot EF_{\text{co2, NG}} / \eta,$$

where:

$BE_{\text{heat BC, heavy tyres, y}}$  – baseline emissions caused by the heat energy consumption in rubber compounds processing in heavy tyres production, t CO<sub>2e</sub>;

$HC_{\text{heavy tyres, BC}}$  – baseline heat consumption in rubber compounds processing in heavy tyres production, Tcal;

$EF_{\text{co2, NG}}$  – CO<sub>2</sub> emission factor from natural gas combustion, t CO<sub>2e</sub>/TJ;

$\eta$  – heat generation energy efficiency (CEE);

4,1868 – coefficient for Tcal recalculation into TJ.

$HC_{\text{heavy tyres, BC}}$  is calculated by the following formula:

$$HC_{\text{heavy tyres, BC}} = SEC_{\text{heat heavy tyres}} \cdot P_{\text{heavy tyres, y}},$$

where:

$HC_{\text{heavy tyres, BC}}$  – baseline heat consumption in rubber compounds processing in heavy tyres production, Tcal;

$SEC_{\text{heat heavy tyres}}$  – baseline specific heat consumption in rubber compounds processing in heavy tyres production, Tcal/t;

$P_{\text{heavy tyres, y}}$  – the project amount of processed rubber compounds for the year y in heavy tyres production, t.

$EF_{\text{co2, NG}}$  is calculated by the following formula:

$$EF_{\text{co2, NG}} = \text{OXID}_{\text{NG}} \cdot W_{\text{NG}} \cdot 44/12,$$

where:

$EF_{\text{co2, NG}}$  – CO<sub>2</sub> emission factor from natural gas combustion, t CO<sub>2e</sub>/TJ;

$\text{OXID}_{\text{NG}}$  – carbon oxidation factor during natural gas combustion, mass or volume unit;

$W_{\text{NG}}$  – carbon emission factor during natural gas combustion, t C/TJ.

44/12 – stoichiometric ratio between molecular weight of CO<sub>2</sub> and carbon., t CO<sub>2e</sub>/t C.

The monitoring plan presents the quality assurance and control procedures for the monitoring process. This includes, as appropriate, information on calibration and on how records on data and/or method validity and accuracy are kept and made available on request.

The monitoring plan clearly identifies the responsibilities and the authority regarding the monitoring activities. The Chairman of the Board of the Board – General director of PJSC “ROSAVA” assigns staff to duties that include operation and maintenance of technological equipment involved in the project. These functions include also recording of all data required for the monitoring. Monitoring group will be headed by the head of the heat and technological bureau of the power department of PJSC “ROSAVA”. Monitoring is to be performed in a close communication with process control staff, and



will include monitoring itself, and also analysis and archivation of all data defined in the section above. Organizational activity on calculation of emission reductions will also be in scope of monitoring group activity. On manager's errand joint implementation project developer performs calculations of emission reduction. For proving the authenticity of periodic data on energy consumption, they will be analyzed according to relevant registered parameters, provided by process control stuff. If discrepancies between data appear, their origin is to be defined in cooperation with process control stuff. If inconsistency of data is discovered in monitoring, relevant corrections are to be done in monitoring of the relevant parameter.

On the whole, the monitoring plan reflects good monitoring practices appropriate to the project type.

The monitoring plan provides, in tabular form, a complete compilation of the data that need to be collected for its application, including data that are measured or sampled and data that are collected from other sources (e.g. official statistics, expert judgment, proprietary data, IPCC, commercial and scientific literature etc.) but not including data that are calculated with equations.

The monitoring plan indicates that the data monitored and required for verification are to be kept for two years after the last transfer of ERUs for the project.

Outstanding issues related to the monitoring plan are presented in the Determination protocol in Appendix A below (please see CARs27-31, CAR 34 and CLs07-11).

#### **4.8 Leakage (40-41)**

Leakage is not envisaged by the project.

#### **4.9 Estimation of emission reductions or enhancements of net removals (42-47)**

The PDD indicates assessment of emissions or net removals in the baseline scenario and in the project scenario as the approach chosen to estimate the emission reductions or enhancement of net removals generated by the project.

The PDD provides the ex ante estimates of:

(a) Emission reductions from the project (within the project boundary), which are 444479 tonnes of CO<sub>2</sub>eq for 2004-2007, 595283 tonnes of CO<sub>2</sub>eq for 2008-2012, 1462801 tonnes of CO<sub>2</sub>eq for 2013-2020.

(b) Leakage, as applicable, which are 0 tonnes of CO<sub>2</sub>eq,



(c) Emission reductions adjusted by leakage (based on (a)-(b) above), which are 444479 tonnes of CO<sub>2</sub>eq for 2004-2007, 595283 tonnes of CO<sub>2</sub>eq for 2008-2012, 1462801 tonnes of CO<sub>2</sub>eq for 2013-2020.

The estimates referred to above are given:

- (a) On a yearly basis;
- (b) From 01/01/2004 to 31/12/2020, covering the whole crediting period;
- (c) On a source-by-source/sink-by-sink basis;
- (d) For each GHG gas, which are (CO<sub>2</sub>)
- (e) In tonnes of CO<sub>2</sub> equivalent, using global warming potentials defined by decision 2/CP.3 or as subsequently revised in accordance with Article 5 of the Kyoto Protocol;

The formula used for calculating the estimates referred above are consistent throughout the PDD (please see PDD and section 4.7).

For calculating the estimates referred to above, key factors influencing the baseline emissions or removals and the activity level of the project and the emissions or net removals as well as risks associated with the project were taken into account, as appropriate.

Data sources used for calculating the estimates referred to above, such as (National Inventory of Ukraine, plant records, CDM tools etc) are clearly identified, reliable and transparent.

Emission factors, such as (indirect specific CO<sub>2</sub> emission factor for electricity consumption by the 1 class of consumers, heat generation energy efficiency (CEE), carbon emission factor during natural gas combustion), were selected by carefully balancing accuracy and reasonableness, and appropriately justified of the choice.

The estimation referred to above is based on conservative assumptions and the most plausible scenarios in a transparent manner.

The estimates referred to above are consistent throughout the PDD.

The annual average of estimated emission reductions or enhancements of net removals over the crediting period is calculated by dividing the total estimated emission reductions or enhancements of net removals over the crediting period by the total months of the crediting period, and multiplying by twelve.

Outstanding issues related to estimation of emission reductions are presented in the Determination protocol in Appendix A below (please see CAR 32).



#### **4.10 Environmental impacts (48)**

The PDD lists and attaches documentation on the analysis of the environmental impacts of the project, including transboundary impacts, in accordance with procedures as determined by the host Party, such as:

- License №267-17 for the waste location dated 17/06/2011;
- License №201/17 for the special water use dated 27/07/2011;
- License №3210300000-236 for emitting pollutants of the atmosphere dated 20/09/2011;
- License №3210300000-237 for emitting pollutants of the atmosphere dated 20/09/2011.

The PDD provides conclusion and all references to supporting documentation of an environmental impact assessment undertaken in accordance with the procedures as required by the host Party, if the analysis referred to above indicates that the environmental impacts are considered significant by the project participants or the host Party.

Outstanding issues related to the environmental impacts are presented in the Determination protocol in Appendix A below (please see CAR 33).

#### **4.11 Stakeholder consultation (49)**

The host Party does not require consultations with stakeholders for joint implementation projects.

#### **4.12 Determination regarding small scale projects (50-57)**

Not applicable.

#### **4.13 Determination regarding land use, land-use change and forestry (LULUCF) projects (58-64)**

Not applicable.

#### **4.14 Determination regarding programmes of activities (65-73)**

Not applicable.

### **5 SUMMARY AND REPORT OF HOW DUE ACCOUNT WAS TAKEN OF COMMENTS RECEIVED PURSUANT TO PARAGRAPH 32 OF THE JI GUIDELINES**

No comments, pursuant to paragraph 32 of the JI Guidelines, were received during PDD webhosting on [www.bureauveritas.com.ua](http://www.bureauveritas.com.ua) web site for the period of 18/10/2012-16/11/2012.





## 6 DETERMINATION OPINION

Bureau Veritas Certification has performed a determination of the “Realization of a complex of energy saving activities at PJSC “ROSAVA” Project in Ukraine. The determination 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 determination consisted of the following three phases: i) a desk review of the project design and the baseline and monitoring plan; ii) follow-up interviews with project stakeholders; iii) the resolution of outstanding issues and the issuance of the final determination report and opinion.

Project participant/s used the latest tool for demonstration of the additionality. In line with this tool, the PDD provides investment analysis AND common practice analysis, to determine that the project activity itself is not the baseline scenario.

Emission reductions attributable to the project are hence additional to any that would occur in the absence of the project activity. Given that the project is implemented and maintained as designed, the project is likely to achieve the estimated amount of emission reductions.

The determination revealed two pending issues related to the current determination stage of the project: the issue of the written approval of the project and the authorization of the project participant by the host Party. If the written approval and the authorization by the host Party are awarded, it is our opinion that the project as described in the Project Design Document, Version 04 meets all the relevant UNFCCC requirements for the determination stage and the relevant host Party criteria.

The review of the project design documentation (version 01, 02, 03, 04) and the subsequent follow-up interviews have provided Bureau Veritas Certification with sufficient evidence to determine the fulfillment of stated criteria. In our opinion, the project correctly applies and meets the relevant UNFCCC requirements for the JI and the relevant host country criteria.

The determination is based on the information made available to us and the engagement conditions detailed in this report.



## 7 REFERENCES

### Category 1 Documents:

Documents provided by Climate Protection Bureau LLP, PJSC "ROSAVA" that relate directly to the GHG components of the project.

- /1/ Project Design Document «Realization of a complex of energy saving activities at PJSC "ROSAVA"» version 01 dated 19/10/2012
- /2/ Emission Reductions Calculation version 01 excel file dated 19/10/2012
- /3/ Project Design Document «Realization of a complex of energy saving activities at PJSC "ROSAVA"» version 02 dated 12/11/2012
- /4/ Project Design Document «Realization of a complex of energy saving activities at PJSC "ROSAVA"» version 03 dated 14/11/2012
- /5/ Project Design Document «Realization of a complex of energy saving activities at PJSC "ROSAVA"» version 04 dated 16/11/2012
- /6/ Financial model calculation version 01 dated 19/10/2012
- /7/ Emission Reductions Calculation version 02 excel file dated 12/11/2012
- /8/ Letter of Endorsement #2689/23/7 dated 20/09/2012 issued by the State environmental Investment Agency of Ukraine
- /9/ National Inventory Report of Ukraine 1999-2010
- /10/ "GUIDANCE ON CRITERIA FOR BASELINE SETTING AND MONITORING" version 03
- /11/ "Combined tool to identify the baseline scenario and demonstrate additionality" version 01
- /12/ "GUIDELINES FOR USERS OF THE JOINT IMPLEMENTATION PROJECT DESIGN DOCUMENT FORM" version 04
- /13/ "Tool for demonstration and assessment of additionality" version 06.1.0.
- /14/ Determination and Verification Manual, version 01

### Category 2 Documents:

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

- /1/ Statements on finished products distribution for 2004, Bilotserkivska TPP CJSC (monthly data)
- /2/ Reports on production and economic activity of the preparation shop at main production site for 2004 (monthly data)
- /3/ Energy resources distribution by CJSC "ROSAVA" for 2004 (monthly data)
- /4/ Statements on finished products distribution for 2005, Bilotserkivska TPP CJSC (monthly data)
- /5/ Inquiry on rubber compounds production at heavy tyres production site in 2005
- /6/ Reports on production and economic activity of the preparation shop at main production site for 2005 (monthly data)
- /7/ Energy resources distribution by CJSC "ROSAVA" for 2005 (monthly data)
- /8/ Statements on finished products distribution for 2006, Bilotserkivska TPP CJSC (monthly data)



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- /9/ Reports on production and economic activity of the preparation shop at main production site for 2006 (monthly data)
- /10/ Reports on production and economic activity of the preparation shop at heavy tyres production site for 2006 (monthly data)
- /11/ Energy resources distribution by CJSC "ROSAVA" for 2006 (monthly data)
- /12/ Statements on finished products distribution for 2007, Bilotserkivska TPP CJSC (monthly data)
- /13/ Reports on production and economic activity of the preparation shop at main production site for 2007 (monthly data)
- /14/ Reports on production and economic activity of the preparation shop at heavy tyres production site for 2007 (monthly data)
- /15/ Energy resources distribution by CJSC "ROSAVA" for 2007 (monthly data)
- /16/ Statements on finished products distribution for 2008, Bilotserkivska TPP CJSC (monthly data)
- /17/ Reports on production and economic activity of the preparation shop at main production site for 2008 (monthly data)
- /18/ Reports on production and economic activity of the preparation shop at heavy tyres production site for 2008 (monthly data)
- /19/ Energy resources distribution by CJSC "ROSAVA" for 2008 (monthly data)
- /20/ Statements on finished products distribution for 2009, Bilotserkivska TPP CJSC (monthly data)
- /21/ Reports on production and economic activity of the preparation shop at main production site for 2009 (monthly data)
- /22/ Reports on production and economic activity of the preparation shop at heavy tyres production site for 2009 (monthly data)
- /23/ Energy resources distribution by CJSC "ROSAVA" for 2009 (monthly data)
- /24/ Statements on finished products distribution for 2010, Bilotserkivska TPP CJSC (monthly data)
- /25/ Reports on production and economic activity of the preparation shop at main production site for 2010 (monthly data)
- /26/ Reports on production and economic activity of the preparation shop at heavy tyres production site for 2010 (monthly data)
- /27/ Energy resources distribution by CJSC "ROSAVA" for 2010 (monthly data)
- /28/ Statements on finished products distribution for 2011, Bilotserkivska TPP CJSC (monthly data)
- /29/ Reports on production and economic activity of the preparation shop at main production site for 2011 (monthly data)
- /30/ Reports on production and economic activity of the preparation shop at heavy tyres production site for 2011 (monthly data)
- /31/ Energy resources distribution by CJSC "ROSAVA" for 2011 (monthly data)
- /32/ Reports on production and economic activity of the preparation shop at main production site for 2001-2003 (annual data)
- /33/ Energy resources distribution by CJSC "ROSAVA" for 2001-2011 (annual data)
- /34/ Lease agreement # 114/865 dated 31/10/2005 between Bilotserkivska TPP and CJSC "ROSAVA"
- /35/ Lease agreement # 21/1722 dated 01/10/2006 between Bilotserkivska TPP and CJSC "ROSAVA"



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- /36/ Agreement BBT # 543280 on purchase of commercial and industrial premises between CJSC "ROSAVA" and BiosynteZ LLC (compressor station)
- /37/ Agreement BBT # 293663 on purchase of commercial and industrial premises between CJSC "ROSAVA" and Bilotserkivska TPP (heavy tyres production site)
- /38/ Certificate # 008785 dated 17/12/2004 on premises ownership (main production site)
- /39/ Passport on electronic scales type BH2000-H, fabrication # 07420 (last calibration date–16/12/2011)
- /40/ Passport on electronic scales type CB-5000 ПВ, fabrication # 11450, inventory # 17 (last calibration date–14/09/2012)
- /41/ Passport on electronic scales type ТП-5000Д, fabrication # 0298, inventory # 18 (last calibration date–14/09/2012)
- /42/ Passport on power meter type ZMD, fabrication # 76832496 (last calibration date–13/02/2008)
- /43/ Calibration certificate # 29-08/1162 dated 13/08/2008, valid till 08/2012 on current transformer type JPZ10-2, fabrication # 04577, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /44/ Calibration certificate # 29-08/1160 dated 13/08/2008, valid till 08/2012 on current transformer type JPZ10-2, fabrication # 01835, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /45/ Calibration certificate # 29-08/0483 dated 10/04/2008, valid till 04/2012 on voltage transformer type UZ-10-IT, fabrication # 24027, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /46/ Calibration certificate # 29-08/0484 dated 10/04/2008, valid till 04/2012 on voltage transformer type UZ-10-IT, fabrication # 24011, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /47/ Calibration certificate # 29-08/0488 dated 10/04/2008, valid till 04/2012 on voltage transformer type UZ-10-IT, fabrication # 24024, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /48/ Passport on power meter type ZMD, fabrication # 76832517 (last calibration date–13/02/2008)
- /49/ Calibration certificate # 29-08/1165 dated 13/08/2008, valid till 08/2012 on current transformer type JPZ10-2, fabrication # 260, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /50/ Calibration certificate # 29-08/1161 dated 13/08/2008, valid till 08/2012 on current transformer type JPZ10-2, fabrication # 01834, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /51/ Calibration certificate # 29-08/0493 dated 10/04/2008, valid till 04/2012 on voltage transformer type UZ-10-IT, fabrication # 24007, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology,



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- Certification and Consumers' Rights Protection State Enterprise
- /52/ Calibration certificate # 29-08/0487 dated 10/04/2008, valid till 04/2012 on voltage transformer type UZ-10-IT, fabrication # 24014, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /53/ Calibration certificate # 29-08/0491 dated 10/04/2008, valid till 04/2012 on voltage transformer type UZ-10-IT, fabrication # 24003, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /54/ Passport on power meter type ZMD, fabrication # 76832518 (last calibration date–13/02/2008)
- /55/ Calibration certificate # 29-08/0578 dated 24/04/2008, valid till 04/2012 on current transformer type JPZ10-2, fabrication # 01826, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /56/ Calibration certificate # 29-08/0576 dated 24/04/2008, valid till 04/2012 on current transformer type JPZ10-2, fabrication # 94907, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /57/ Calibration certificate # 29-08/0852 dated 20/06/2008, valid till 06/2012 on voltage transformer type UZ-10-IT, fabrication # 12694, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /58/ Calibration certificate # 29-08/0848 dated 20/06/2008, valid till 06/2012 on voltage transformer type UZ-10-IT, fabrication # 12697, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /59/ Calibration certificate # 29-08/0851 dated 20/06/2008, valid till 06/2012 on voltage transformer type UZ-10-IT, fabrication # 12692, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /60/ Passport on power meter type ZMD, fabrication # 76832498 (last calibration date–13/02/2008)
- /61/ Calibration certificate # 29-08/0577 dated 24/04/2008, valid till 04/2012 on current transformer type JPZ10-2, fabrication # 118, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /62/ Calibration certificate # 29-08/0574 dated 24/04/2008, valid till 04/2012 on current transformer type JPZ10-2, fabrication # 92086, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /63/ Calibration certificate # 29-08/0849 dated 20/06/2008, valid till 06/2012 on voltage transformer type UZ-10-IT, fabrication # 12102, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /64/ Calibration certificate # 29-08/0850 dated 20/06/2008, valid till 06/2012 on voltage transformer type UZ-10-IT, fabrication # 12111, issued by the Ukrainian





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- State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /65/ Calibration certificate # 29-08/0853 dated 20/06/2008, valid till 06/2012 on voltage transformer type UZ-10-IT, fabrication # 12101, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /66/ Passport on power meter type ZMD, fabrication # 80236433 (last calibration date–21/02/2008)
- /67/ Calibration certificate # 29-10/0568 dated 23/03/2010, valid till 03/2014 on current transformer type ABK-10, fabrication # 25203, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /68/ Calibration certificate # 29-10/0569 dated 23/03/2010, valid till 03/2014 on current transformer type ABK-10, fabrication # 22273, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /69/ Calibration certificate # 29-10/2072 dated 18/10/2010, valid till 04/2014 on voltage transformer type UZ-10-IT, fabrication # 94712, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /70/ Calibration certificate # 29-10/2070 dated 18/10/2010, valid till 04/2014 on voltage transformer type UZ-10-IT, fabrication # 94730, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /71/ Calibration certificate # 29-10/2071 dated 18/10/2010, valid till 04/2014 on voltage transformer type UZ-10-IT, fabrication # 94721, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /72/ Passport on power meter type ZMD, fabrication # 80236439 (last calibration date–21/02/2008)
- /73/ Calibration certificate # 29-10/0573 dated 23/03/2010, valid till 03/2014 on current transformer type ABK-10, fabrication # 25200, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /74/ Calibration certificate # 29-10/0572 dated 23/03/2010, valid till 03/2014 on current transformer type ABK-10, fabrication # 25207, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /75/ Calibration certificate # 29-10/0523 dated 22/03/2010, valid till 03/2014 on voltage transformer type UZ-10-IT, fabrication # 96703, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /76/ Calibration certificate # 29-10/0522 dated 22/03/2010, valid till 03/2014 on voltage transformer type UZ-10-IT, fabrication # 84646, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /77/ Calibration certificate # 29-10/0521 dated 22/03/2010, valid till 03/2014 on



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- voltage transformer type UZ-10-IT, fabrication # 84648, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /78/ Passport on power meters type CA3Y-И687, fabrication ## 335018, 277912, 190555, 190692 (last calibration date–27/05/2010)
- /79/ Calibration certificate # 29-0030 dated 17/01/2011 on current transformer type ТОЛ-10-У2, fabrication # 23169, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /80/ Calibration certificate # 29-0029 dated 17/01/2011 on current transformer type ТОЛ-10-У2, fabrication # 23087, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /81/ Calibration certificate # 29-0031 dated 17/11/2011 on voltage transformer type НАМИ-10У2, fabrication # 4006, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /82/ Passport on power meters type EA02RAL-C-3, fabrication # 01095245 (last calibration date–04/2010)
- /83/ Calibration certificate # 29-3255 dated 02/11/2009 on current transformer type ТШБ-15, fabrication # 256, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /84/ Calibration certificate # 29-3256 dated 02/11/2009 on current transformer type ТШБ-15, fabrication # 257, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /85/ Calibration certificate # 29-3275 dated 03/11/2009 on voltage transformer type НАМИ-6-66 У3, fabrication # 2606, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /86/ Passport on power meters type EA02RAL-C-3, fabrication # 01095244 (last calibration date–04/2010)
- /87/ Calibration certificate # 29-3249 dated 02/11/2009 on current transformer type ТШБ-15, fabrication # 258, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /88/ Calibration certificate # 29-3250 dated 02/11/2009 on current transformer type ТШБ-15, fabrication # 253, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /89/ Calibration certificate # 29-3274 dated 03/11/2009 on voltage transformer type НТМИ-6-66 У3, fabrication # 11072, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /90/ Passport on power meter type ZMD, fabrication # 77491815 (last calibration date–07/05/2009)



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- /91/ Passport on current transformer type T-0,66, fabrication # 56280 (last calibration date–23/03/2012)
- /92/ Passport on current transformer type T-0,66, fabrication # 64119 (last calibration date–23/03/2012)
- /93/ Passport on current transformer type T-0,66, fabrication # 56058 (last calibration date–23/03/2012)
- /94/ Passport on current transformer type T-0,66, fabrication # 15567 (last calibration date–IV quarter 2007)
- /95/ Passport on current transformer type T-0,66, fabrication # 15411 (last calibration date–IV quarter 2007)
- /96/ Passport on current transformer type T-0,66, fabrication # 15205 (last calibration date–IV quarter 2007)
- /97/ Document justifying calibration period of transformers type T-0,66
- /98/ Passport on power meter type ZMD, fabrication # 77491811 (last calibration date–16/03/2009)
- /99/ Passport on current transformer type T-0,66, fabrication # 16343 (last calibration date–IV quarter 2007)
- /100/ Passport on current transformer type T-0,66, fabrication # 77596 (last calibration date–IV quarter 2007)
- /101/ Passport on current transformer type T-0,66, fabrication # 63468 (last calibration date–19/03/2012)
- /102/ Passport on current transformer type T-0,66, fabrication # 63403 (last calibration date–19/03/2012)
- /103/ Passport on power meter type ZMD, fabrication # 77491809 (last calibration date–12/2008)
- /104/ Passport on current transformer type T-0,66, fabrication # 63473 (last calibration date–19/03/2012)
- /105/ Passport on current transformer type T-0,66, fabrication # 62998 (last calibration date–19/03/2012)
- /106/ Passport on current transformer type T-0,66, fabrication # 16676 (last calibration date–IV quarter 2007)
- /107/ Passport on current transformer type T-0,66, fabrication # 16622 (last calibration date–IV quarter 2007)
- /108/ Passport on power meter type ZMD, fabrication # 96076225 (last calibration date–05/2009)
- /109/ Passport on current transformer type T-0,66, fabrication # 61187 (last calibration date–I quarter 2008)
- /110/ Passport on current transformer type T-0,66, fabrication # 61136 (last calibration date–I quarter 2008)
- /111/ Passport on current transformer type T-0,66, fabrication # 62278 (last calibration date–I quarter 2008)
- /112/ Passport on power meter type ZMD, fabrication # 96076224 (last calibration date–05/2009)
- /113/ Passport on current transformer type T-0,66, fabrication # 74215 (last calibration date–I quarter 2008)
- /114/ Passport on current transformer type T-0,66, fabrication # 74230 (last calibration date–I quarter 2008)



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- /115/ Passport on current transformer type T-0,66, fabrication # 74181 (last calibration date—I quarter 2008)
- /116/ Passport on power meter type ZMD, fabrication # 96076222 (last calibration date—05/2009)
- /117/ Passport on current transformer type T-0,66, fabrication # 61385 (last calibration date—I quarter 2008)
- /118/ Passport on current transformer type T-0,66, fabrication # 61945 (last calibration date—I quarter 2008)
- /119/ Passport on current transformer type T-0,66, fabrication # 61506 (last calibration date—I quarter 2008)
- /120/ Passport on power meter type ZMD, fabrication # 96076223 (last calibration date—05/2009)
- /121/ Passport on current transformer type T-0,66, fabrication # 74116 (last calibration date—I quarter 2008)
- /122/ Passport on current transformer type T-0,66, fabrication # 61396 (last calibration date—I quarter 2008)
- /123/ Passport on current transformer type T-0,66, fabrication # 74203 (last calibration date—I quarter 2008)
- /124/ Passport on power meter type ZMD, fabrication # 76563041 (last calibration date—12/2008)
- /125/ Calibration certificate # 29-08/0607 dated 07/05/2008, valid till 05/2012, on current transformer type ТПОЛ10У3, fabrication # 192, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /126/ Calibration certificate # 29-08/0608 dated 07/05/2008, valid till 05/2012, on current transformer type ТПОЛ10У3, fabrication # 195, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /127/ Passport on power meter type ZMD, fabrication # 76563040 (last calibration date—12/2008)
- /128/ Calibration certificate # 29-08/0606 dated 07/05/2008, valid till 05/2012, on current transformer type ТПОЛ10У3, fabrication # 8609, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /129/ Calibration certificate # 29-08/0608 dated 07/05/2008, valid till 05/2012, on current transformer type ТПОЛ10У3, fabrication # 8926, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /130/ Passport on power meter type ZMD, fabrication # 76563053 (last calibration date—12/2008)
- /131/ Calibration certificate # 29-08/0702 dated 22/05/2008, valid till 05/2012, on current transformer type ТПЛМ-10, fabrication # 45760, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /132/ Calibration certificate # 29-08/0700 dated 22/05/2008, valid till 05/2012, on current transformer type ТПЛМ-10, fabrication # 68174, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology,



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- Certification and Consumers' Rights Protection State Enterprise
- /133) Passport on power meter type ZMD, fabrication # 76563035 (last calibration date–12/2008)
  - /134) Calibration certificate # 29-08/0701 dated 22/05/2008, valid till 05/2012, on current transformer type ТПЛМ-10, fabrication # 68166, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
  - /135) Calibration certificate # 29-08/0703 dated 22/05/2008, valid till 05/2012, on current transformer type ТПЛМ-10, fabrication # 68166, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
  - /136) Calibration certificate # 29-08/0479 dated 10/04/2008, valid till 04/2012, on voltage transformer type ТПЛМ-10, fabrication # 61, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
  - /137) Passport on power meter type ZMD, fabrication # 76563036 (last calibration date–12/2008)
  - /138) Calibration certificate # 29-08/0698 dated 22/05/2008, valid till 05/2012, on current transformer type ТПЛ-10 У3, fabrication # 67654, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
  - /139) Calibration certificate # 29-08/0699 dated 22/05/2008, valid till 05/2012, on current transformer type ТПЛ-10 У3, fabrication # 4880, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
  - /140) Calibration certificate # 29-08/0480 dated 10/04/2008, valid till 04/2012, on voltage transformer type НТМИ-6, fabrication # 4596, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
  - /141) Passport on power meters type EA05RAL-C-3, fabrication # 01047160 (last calibration date–2006)
  - /142) Calibration certificate # 29-10/0567 dated 23/03/2010, valid till 03/2014, on current transformer type ABK-10, fabrication # 14117, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
  - /143) Calibration certificate # 29-10/0570 dated 23/03/2010, valid till 03/2014, on current transformer type ABK-10, fabrication # 14184, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
  - /144) Passport on power meters type EA05RAL-C-3, fabrication # 01047165 (last calibration date–III quarter 2006)
  - /145) Calibration certificate # 29-10/0576 dated 23/03/2010, valid till 03/2014 on current transformer type ABK-10, fabrication # 14185, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
  - /146) Calibration certificate # 29-10/0571 dated 23/03/2010, valid till 03/2014 on current transformer type ABK-10, fabrication # 14186, issued by the Ukrainian





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- State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /147, Calibration certificate # 29-08/56578 dated 10/04/2008, valid till 04/2012 on voltage transformer type UZ-10-IT, fabrication # 56578, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /148, Calibration certificate # 29-08/0492 dated 10/04/2008, valid till 04/2012 on voltage transformer type UZ-10-IT, fabrication # 56584, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /149, Calibration certificate # 29-08/0485 dated 10/04/2008, valid till 04/2012 on voltage transformer type UZ-10-IT, fabrication # 56580, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /150, Passport on power meter type EA05RAL-C-3, fabrication # 01047167 (last calibration date–20/11/2006)
- /151, Calibration certificate # 29-10/0578 dated 23/03/2010, valid till 03/2014 on current transformer type ТПЛ-10, fabrication # 70550, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /152, Calibration certificate # 29-10/0577 dated 23/03/2010, valid till 03/2014 on current transformer type ТПЛ-10, fabrication # 29152, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /153, Calibration certificate # 29-08/0497 dated 10/04/2008, valid till 04/2012 on voltage transformer type VSK-10, fabrication # 007901, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /154, Calibration certificate # 29-08/0494 dated 10/04/2008, valid till 04/2012 on voltage transformer type VSK-10, fabrication # 007908, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /155, Calibration certificate # 29-08/0495 dated 10/04/2008, valid till 04/2012 on voltage transformer type VSK-10, fabrication # 007848, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /156, Passport on power meter type ZMD, fabrication # 76563048 (last calibration date–12/2008)
- /157, Calibration certificate # 29-10/0575 dated 23/03/2010, valid till 03/2014 on current transformer type ABK-10, fabrication # 002280, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /158, Calibration certificate # 29-10/0574 dated 23/03/2010, valid till 03/2014 on current transformer type ABK-10, fabrication # 002254, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /159, Calibration certificate # 29-08/0490 dated 10/04/2008, valid till 04/2012 on



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- voltage transformer type UZ-10-IT, fabrication # 56572, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /160, Calibration certificate # 29-08/0489 dated 10/04/2008, valid till 04/2012 on voltage transformer type UZ-10-IT, fabrication # 56576, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /161, Calibration certificate # 29-08/0482 dated 10/04/2008, valid till 04/2012 on voltage transformer type UZ-10-IT, fabrication # 56573, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /162, Passport on power meter type ZMD, fabrication # 76563039 (last calibration date–18/03/2009)
- /163, Calibration certificate # 29-08/0588 dated 07/05/2008, valid till 05/2012, on current transformer type ТПШЛ-10У3, fabrication # 3182, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /164, Calibration certificate # 29-08/0591 dated 07/05/2008, valid till 05/2012, on current transformer type ТПШЛ-10У3, fabrication # 3186, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /165, Calibration certificate # 29-08/0526 dated 22/03/2010, valid till 03/2012 on voltage transformer type VSKI 10b, fabrication # 007890/78, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /166, Calibration certificate # 29-10/0530 dated 22/03/2010, valid till 03/2012 on voltage transformer type VSKI 10b, fabrication # 003919/78, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /167, Calibration certificate # 29-10/0525 dated 22/03/2010, valid till 03/2012 on voltage transformer type VSKI 10b, fabrication # 10494/81, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /168, Passport on power meter type ZMD, fabrication # 76563044 (last calibration date–18/03/2009)
- /169, Calibration certificate # 29-08/0590 dated 07/05/2008, valid till 05/2012, on current transformer type ТПШЛ-10У3, fabrication # 6134, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /170, Calibration certificate # 29-08/0592 dated 07/05/2008, valid till 05/2012, on current transformer type ТПШЛ-10У3, fabrication # 2873, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /171, Calibration certificate # 29-10/0527 dated 22/03/2010, valid till 03/2012 on voltage transformer type VSKI 10b, fabrication # 3239/85, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise





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- /172) Calibration certificate # 29-10/0529 dated 22/03/2010, valid till 03/2012 on voltage transformer type VSKI 10b, fabrication # 3221/85, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /173) Calibration certificate # 29-10/0528 dated 22/03/2010, valid till 03/2012 on voltage transformer type VSKI 10b, fabrication # 10499/81, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /174) Passport on power meter type ZMD, fabrication # 76563037 (last calibration date—18/03/2009)
- /175) Calibration certificate # 29-08/0589 dated 07/05/2008, valid till 05/2012, on current transformer type ТПШЛ, fabrication # 3266, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /176) Calibration certificate # 29-08/0594 dated 07/05/2008, valid till 05/2012, on current transformer type ТПШЛ-10У3, fabrication # 1606, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /177) Calibration certificate # 29-10/1108 dated 14/06/2010, valid till 06/2014 on voltage transformer type VSKI 10B, fabrication # 3223, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /178) Calibration certificate # 29-10/1106 dated 14/06/2010, valid till 06/2014 on voltage transformer type VSKI 10B, fabrication # 007904, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /179) Calibration certificate # 29-10/1107 dated 14/06/2010, valid till 06/2014 on voltage transformer type VSKI 10B, fabrication # 007897, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /180) Passport on power meter type ZMD, fabrication # 76563038 (last calibration date—18/03/2009)
- /181) Calibration certificate # 29-08/0593 dated 07/05/2008, valid till 05/2012, on current transformer type ТПШЛ-10У3, fabrication # 1512, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /182) Calibration certificate # 29-08/0587 dated 07/05/2008, valid till 05/2012, on current transformer type ТПШЛ, fabrication # 1758, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /183) Calibration certificate # 29-10/0524 dated 22/03/2010, valid till 03/2014 on voltage transformer type VSKI 10b, fabrication # 00791/78, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /184) Calibration certificate # 29-10/0531 dated 22/03/2010, valid till 03/2014 on voltage transformer type VSKI 10b, fabrication # 10462/81, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology,

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- Certification and Consumers' Rights Protection State Enterprise
- /185, Calibration certificate # 29-10/0532 dated 22/03/2010, valid till 03/2014 on voltage transformer type VSKI 10b, fabrication # 10495/81, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
  - /186, Passport on power meter type HIK 2301 АП2, identification # 0524579 (last calibration date–11/03/2011)
  - /187, Passport on power meter type HIK 2301 АП2, identification # 0530127 (last calibration date–09/03/2011)
  - /188, Passport on power meter type ЦЭ6803B, identification # 74025812 (last calibration date–II quarter 2007)
  - /189, Passport on power meter type CA4E-5030, identification # 0117422 (last calibration date–10/10/2005)
  - /190, Passport on power meter type HIK 2301 АП1, identification # 0547086 (last calibration date–09/03/2011)
  - /191, Passport on power meter type ЦЭ6803B, identification # 008521036347098 (last calibration date–02/09/2010)
  - /192, Passport on power meter type Енергія-9 СТК3-10А, identification # 62880 (last calibration date–03/2006)
  - /193, Passport on power meter type ЦЭ6803B, identification # 008521036347095 (last calibration date–02/09/2010)
  - /194, Passport on power meter type ЦЭ6803B, identification # 008521036347087 (last calibration date–02/09/2010)
  - /195, Passport on power meter type ЦЭ6803B, identification # 008517041367123 (last calibration date–04/02/2011)
  - /196, Passport on power meter type ЦЭ6803B, identification # 008516041367404 (last calibration date–04/02/2011)
  - /197, Passport on power meter type ЦЭ6803B, identification # 008656041368062 (last calibration date–04/02/2011)
  - /198, Passport on current transformer type T-0,66, fabrication # 14389 (last calibration date–I quarter 2011)
  - /199, Passport on current transformer type T-0,66, fabrication # 13574 (last calibration date–I quarter 2011)
  - /200, Passport on power meter type ЦЭ6803B, identification # 008656041368051 (last calibration date–04/02/2011)
  - /201, Passport on current transformer type T-0,66, fabrication # 26021 (last calibration date–I quarter 2011)
  - /202, Passport on current transformer type T-0,66, fabrication # 25403 (last calibration date–I quarter 2011)
  - /203, Passport on current transformer type T-0,66, fabrication # 25464 (last calibration date–I quarter 2011)
  - /204, Passport on power meter type ЦЭ6803B, identification # 75014155 (last calibration date–05/2007)
  - /205, Passport on power meter type ЦЭ6803B, identification # 75014207 (last calibration date–05/2007)
  - /206, Passport on power meter type CE101S6145M, identification # 0603491002861965 (last calibration date–10/2007)

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- /207, Passport on power meter type SL7000, identification # 30314983 (last calibration date–III quarter 2009)
- /208, Calibration protocol # 15 dated 15/12/2009 on current transformers type ТФНД-110, ## 621, 630, 609
- /209, Calibration protocol # 11 dated 15/12/2009 on voltage transformers type НФК-110, ## 35033, 29400, 29357
- /210, Calibration protocol # 2 dated 14/12/2009 on voltage transformers type НФК-110, ## 35033, 29400, 29357
- /211, Passport on power meter type SL7000, identification # 30314984 (last calibration date–III quarter 2009)
- /212, Calibration protocol # 16 dated 15/12/2009 on current transformers type ТФ3М-110, ## 515, 699, 2151
- /213, Calibration protocol # 16 dated 15/12/2009 on voltage transformers type НФК-110, ## 29390, 29352, 29355
- /214, Calibration protocol # 3 dated 14/12/2009 on voltage transformers type НФК-110, ## 29390, 29352, 29355
- /215, Passport on power meter type ZMD, fabrication # 83578867 (last calibration date–12/2008)
- /216, Calibration certificate # 29-10/2075 dated 18/10/2010, valid till 10/2014 on voltage transformer type ТПОЛ-10, fabrication # 205, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /217, Calibration certificate # 29-10/2078 dated 18/10/2010, valid till 10/2014 on voltage transformer type ТПОЛ-10, fabrication # 208, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /218, Passport on power meter type ZMD, fabrication # 83578868 (last calibration date–12/2008)
- /219, Calibration certificate # 29-10/2077 dated 18/10/2010, valid till 10/2014 on voltage transformer type ТПОЛ-10, fabrication # 11103, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /220, Calibration certificate # 29-10/2076 dated 18/10/2010, valid till 10/2014 on voltage transformer type ТПОЛ-10, fabrication # 11292, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /221, Passport on power meter type ЦЭ6803В, identification # 3N032520 (last calibration date–I quarter 2012)
- /222, Passport on current transformer type T-0,66, fabrication # 59194 (last calibration date–26/03/2012)
- /223, Passport on current transformer type T-0,66, fabrication # 64760 (last calibration date–27/03/2012)
- /224, Passport on power meter type HIK2301AK1, identification # 0496368 (last calibration date–29/03/2011)
- /225, Passport on current transformer type T-0,66, fabrication # 77886 (last calibration date–20/07/2012)
- /226, Passport on current transformer type T-0,66, fabrication # 00575 (last

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- /227) Passport on current transformer type T-0,66, fabrication # 78144 (last calibration date–20/07/2012)
- /228) Passport on power meter type ЦЭ6803B, identification # 0710970308865611 (last calibration date–I quarter 2007)
- /229) Calibration certificate # 29-12/1078 dated 12/06/2012, valid till 12/06/2016, on current transformer type ABK-10, fabrication # 24779181, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /230) Calibration certificate # 29-12/1080 dated 12/06/2012, valid till 12/06/2016, on current transformer type ABK-10, fabrication # 24854181, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /231) Calibration certificate # 29-0669 dated 25/05/2012 on voltage transformer type HАМІ-10 У2, fabrication # 1557, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /232) Passport on power meter type ЦЭ6803B, identification # 0710970308865857 (last calibration date–II quarter 2007)
- /233) Calibration certificate # 29-12/1079 dated 12/06/2012, valid till 12/06/2016, on current transformer type ABK-10, fabrication # 24759181, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /234) Calibration certificate # 29-12/1081 dated 12/06/2012, valid till 12/06/2016, on current transformer type ABK-10, fabrication # 24821181, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /235) Calibration certificate # 29-0668 dated 25/05/2012 on voltage transformer type HАМІ-10 У2, fabrication # 1354, issued by the Ukrainian State Scientific and Research Centre for Standardization, Metrology, Certification and Consumers' Rights Protection State Enterprise
- /236) Passport on power meter type HIK 2301 АП3, identification # 0519812 (last calibration date–03/11/2011)
- /237) Passport on power meter type HIK 2301 АП3, identification # 0674910 (last calibration date–15/12/2011)
- /238) Passport on power meter type CTK3-10A1H4P, identification # 57695 (last calibration date–14/11/2011)
- /239) Passport on current transformer type T-0,66, fabrication # 54640 (last calibration date–13/02/2012)
- /240) Passport on current transformer type T-0,66, fabrication # 55688 (last calibration date–15/02/2012)
- /241) Passport on current transformer type T-0,66, fabrication # 55622 (last calibration date–14/02/2012)
- /242) Passport on power meter type HIK2303APK-1, identification # 0075892 (last calibration date–07/02/2011)
- /243) Passport on current transformer type T-0,66, fabrication # 27751 (last calibration date–I quarter 2011)



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- /244, Passport on current transformer type T-0,66, fabrication # 27553 (last calibration date—I quarter 2011)
- /245, Passport on current transformer type T-0,66, fabrication # 27569 (last calibration date—I quarter 2011)
- /246, Passport on power meter type HIK2303APK-1, identification # 0075893 (last calibration date—07/02/2011)
- /247, Passport on current transformer type T-0,66, fabrication # 28812 (last calibration date—13/04/2011)
- /248, Passport on current transformer type T-0,66, fabrication # 27774 (last calibration date—I quarter 2011)
- /249, Passport on current transformer type T-0,66, fabrication # 27681 (last calibration date—I quarter 2011)
- /250, Passport on power meter type HIK2301АП3, identification # 0639798 (last calibration date—11/01/2012)
- /251, Passport on power meter type CTK3-10Q2H6H, identification # 12536 (last calibration date—22/02/2011)
- /252, Passport on power meter type HIK2301AK1, identification # 0647707 (last calibration date—I quarter 2012)
- /253, Passport on current transformer type T-0,66, fabrication # 42822 (last calibration date—23/01/2012)
- /254, Passport on current transformer type T-0,66, fabrication # 46194 (last calibration date—24/01/2012)
- /255, Passport on current transformer type T-0,66, fabrication # 46961 (last calibration date—23/01/2012)
- /256, Passport on power meter type ЦЭ6803В, identification # 43002398 (last calibration date—IV quarter 2006)
- /257, Passport on power meter type Дельта-8010, identification # 24621 (last calibration date—20/09/2011)
- /258, Passport on current transformer type T-0,66, fabrication # 02238 (last calibration date—30/09/2011)
- /259, Passport on current transformer type T-0,66, fabrication # 02254 (last calibration date—30/09/2011)
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- /263, Passport on resistance transmitter type ТСП-1088, fabrication # 001 (last calibration date—22/02/2012)
- /264, Passport # 01 on orifice type ДК, without fabrication # (last calibration date—10/02/2012 (HMU-1))
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- /266, Passport on flow-meter type BK-011, fabrication # 349 (last calibration date—22/02/2012)
- /267, Passport on pressure transducer type 265DS, fabrication # 6600006744 (last calibration date—16/06/2011)
- /268, Passport on pressure transducer type PC-28, fabrication # 06091149 (last





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- /269, List of measurement equipment installed on steam measuring unit # 18
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  - /271, Passport on water meter type ЛЛТ 100X, fabrication # 110800106 (last calibration date–29/02/2012)
  - /272, Passport dated 21/12/2010 on water meter type ЛЛТ 100X, fabrication # 201003314
  - /273, Passport on water meter type ЛЛТ 100X, fabrication # 9395 (last calibration date–06/11/2008)
  - /274, Passport on pressure transducer type APR-2000, fabrication # 10082613 (last calibration date–10/01/2012)
  - /275, Passport on pressure transducer type APR-2000, fabrication # 107091897 (last calibration date–10/01/2012)
  - /276, Passport on pressure transducer type APR-2000, fabrication # 12071101 (last calibration date–10/01/2012)
  - /277, Passport # 01 on standard orifice, without fabrication # (last calibration date–10/02/2012 (HMU-3)
  - /278, Passport on flow-meter type BK-011, fabrication # 368 (last calibration date–10/01/2012)
  - /279, Passport on resistance transmitter type ТСП-1088, fabrication # 1464 (last calibration date–10/01/2012)
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  - /282, Report on environmental protection for 2011. Form # 2-ТП (air) (annual)
  - /283, Agreement # 925 dated 06/12/2011 between Kyiv Regional Scientific and Production Centre for Standardization, Metrology and Certification State Enterprise and PJSC “ROSAVA” on providing metrological services
  - /284, Agreement # 42/123 dated 23/02/2010 between “NPC “Ukrenergo” and PJSC “ROSAVA” on power supply
  - /285, Agreement # 150/32/164 dated 25/12/2001 between Bilotserkivska TPP CJSC and CJSC “ROSAVA” on heat supply (in form of steam and hot water)
  - /286, Report on wastes and consumption of energy-related materials and petroleum refinery products for 2011. Form # 4-мтп (annual)
  - /287, Report on results of fuel, heat and electricity consumption for 2011. Form # 11-мтп (annual)
  - /288, Inquiry on average annual cost of energy resources consumed by PJSC “ROSAVA”
  - /289, Agreement # 361 dated 20/06/2012 between JV Yukoil LLC and PJSC “ROSAVA” on purchase and sale of used industrial oil
  - /290, Agreement # 10/528 dated 09/07/2009 between Shynnyk PE and CJSC “ROSAVA” on purchase and sale of production wastes
  - /291, Agreement # 199 dated 08/04/2012 between NVP UkrPolProm LLC and PJSC “ROSAVA” on purchase and sale of production wastes (polymer and rubber wastes, including worn-out tyres)
  - /292, Agreement # 310/69/0112 between PJSC “ROSAVA” and Kyiv Cardboard and Paper Mill on supply and purchase of waste paper
  - /293, Permit # 3210300000-145 on stationary sources air pollution, issued by the



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- Ministry of Environmental Protection of Ukraine, valid from 21/08/2009 till 21/08/2014
- /294, Permit # 3210300000-236 on stationary sources air pollution, issued by the Ministry of Environmental Protection of Ukraine, valid from 20/09/2011 till 20/09/2016
  - /295, Permit # 3210300000-237 on stationary sources air pollution, issued by the Ministry of Environmental Protection of Ukraine, valid from 20/09/2011 till 20/09/2016
  - /296, Order # 211 dated 13/03/2012 on amending the Order # 18 dated 12/01/2004 On Appointing Monitoring Team
  - /297, Order # 18 dated 12/01/2004 On Appointing Monitoring Team
  - /298, EIA. Boiler-house construction at PJSC "ROSAVA" heavy tyres production site
  - /299, Schedule of GHGs emission monitoring within "Realization of a complex of energy saving activities at PJSC "ROSAVA"
  - /300, Instruction # 104 dated 20/06/2008 on training courses for compressor units operators
  - /301, Logbook on training courses of compressor units operators
  - /302, Protocol dated 11/09/2009 on boiler-house operators training
  - /303, Attestation certificate # 70A-104-11 dated 25/11/2011 on measurement PJSC "ROSAVA" laboratory
  - /304, Article in the Dilovyi Partner (Business Partner) magazine # 9.2011 on PJSC "ROSAVA" energy efficiency activities
  - /305, Balance sheet as of 31/12/2009 (Form # 1)
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  - /311, Statute of private joint-stock company "ROSAVA", approved as of 29/04/2011
  - /312, Inquiry Series АБ # 160267 from Unified State Register of Legal Entities and Individual Entrepreneurs (PJSC "ROSAVA")
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  - /314, Passport on Danfoss frequency transducer, fabrication # 000303H118 (commissioning date–31/07/2008)
  - /315, Passport on Danfoss frequency transducer, fabrication # 000403H118 (commissioning date–27/06/2008)
  - /316, Passport on Danfoss frequency transducer, fabrication # 000503H128 (commissioning date–26/06/2008)
  - /317, Passport on Danfoss frequency transducer, fabrication # 000510H406 (commissioning date–18/01/2007)
  - /318, Passport on Danfoss frequency transducer, fabrication # 000703H138 (commissioning date–31/07/2008)
  - /319, Passport on Danfoss frequency transducer, fabrication # 000211H367 (commissioning date–20/12/2007)
  - /320, Passport on Danfoss frequency transducer, fabrication # 000213H330 (commissioning date–16/10/2010)
  - /321, Passport on Danfoss frequency transducer, fabrication # 000311H367

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- /322, Passport on Danfoss frequency transducer, fabrication # 000313H260  
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- /323, Passport on Danfoss frequency transducer, fabrication # 000313H260  
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- /324, Passport on Danfoss frequency transducer, fabrication # 000404H388  
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- /325, Passport on Danfoss frequency transducer, fabrication # 000810H416  
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- /326, Passport on Danfoss frequency transducer, fabrication # 000902H088  
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- /327, Passport on Danfoss frequency transducer, fabrication # 012404G058  
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- /328, Passport on Danfoss frequency transducer, fabrication # 636616H115  
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- /329, Passport on Danfoss frequency transducer, fabrication # 837018H215  
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- /330, Passport on MITSUBISHI Electric frequency transducer, fabrication  
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- /331, Invoice-request dated 12/10/2009 on materials inner flow of materials (Form  
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- /332, Order # 30 dated 06/02/2008 on installation of condensate drains at heavy  
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- /333, Statements on commissioning of frequency transducers at heavy tyres  
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- /334, Order # 03 dated 23/01/07 on installation of frequency transducers at heavy  
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- /335, List of installed frequency transducers at heavy tyres production site (5 units)
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- /351, Passport on pump type 1Д800-56АУХЛ4, fabrication # 3H22 (manufacturing date–16/10/2008)
- /352, Passport on electric motor type 4AMH28094Y3, fabrication # 80967 (conservation date–20/11/2008)
- /353, Passport on pump type 1Д800-56АУХЛ4, fabrication # 3H41 (manufacturing date–16/10/2008)
- /354, Passport on electric motor type 4AMH28094Y3, fabrication # 79456 (conservation date–20/11/2008)
- /355, Order # 105 dated 20/08/2009 “On installation of pumps”
- /356, Statement dated 06/09/2012 on commissioning of scheme on tyres vulcanization at heavy tyres production site without bond freezing
- /357, Technological assignment # 101-2, valid from 16/08/2011 till 16/11/2011 concerning scheme of tyres vulcanization at heavy tyres production site without bond freezing
- /358, Statement dated 03/04/2012 on tyres assembling machine type СПР2-815-1660, inventory # 48090, fabrication # 5
- /359, Passport on tyres assembling machine type СПР2-815-1660, fabrication # 4 (conservation date–13/02/2012)
- /360, Passport on tyres assembling machine type СПР2-815-1660, fabrication # 5 (conservation date–13/02/2012)
- /361, Agreement # 31/15/069-32P/11/394 dated 06/04/2011 between CJSC “ROSAVA” and Pavlograd Plant of Technological Equipment LLC on purchase of tyres assembling machines type СПР2-815-1660
- /362, Order # 216 dated 15/10/2003 on appointing the commission on heat utilization system
- /363, Passport on electric motor type 4AM1602Y2, fabrication # 306555
- /364, Passport on electric motor type 4AM1602Y2, fabrication # 0169
- /365, Passport on electric motor type 4AM1602Y2, fabrication # 25959
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- /368, Passport on pump type 1Д315-71, fabrication # 303 (manufacturing date–30/01/1991)
- /369, Passport on pump type 1Д315-71, fabrication # 2874 (manufacturing date–16/09/1991)
- /370, Passport on pump type 1Д315-71, fabrication # 2886 (manufacturing date–12/09/1991)
- /371, Passport on pump type 1Д315-71, fabrication # 3325 (manufacturing date–05/12/1990)
- /372, Passport on pump type KC 50-55-2, fabrication # 7457 (manufacturing date–17/12/2001)
- /373, Passport on heat exchanger, registration # 299 (last calibration date–14/03/2007)
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- /375, Passport on pipeline, registration # 35 (last calibration date–22/09/2005)
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- /437, Technological assignment # 143 dated 15/08/2006 on introduction of vulcanization steam mode
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- /439, Statement # 7/1 dated 11/11/2008 on acceptance-transmitting of pumps type 1Д1250-63
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- /459, Statement dated 12/09/2006 on acceptance of pump type ЦНC 105x245, # 128
- /460, Statement dated 12/09/2006 on acceptance of pump type ЦНCН 105-245, fabrication # 568 (# 128)
- /461, Order # 16 dated 13/01/2006 on starting works concerning heat saving
- /462, Statement # 3-0-1-1 dated 05/11/2009 on acceptance of executed works (replacement of steam pipeline insulation)
- /463, Contract # 125/610 dated 21/08/2009 between Kredo LLC and CJSC ЭКЦЫФМФЭ on steam pipeline insulation repair
- /464, Technical description of PAROC Wired Mat 65 heat insulator
- /465, Statement dated 25/12/2008 on commissioning of Libepal ring molding unit
- /466, Technical documentation on Libepal ring molding unit
- /467, Statement dated 18/07/2006 on commissioning of Berstorff Triplex Line tread aggregate
- /468, Passport on Berstorff Triplex Line tread aggregate, serial # 90201567
- /469, Statement dated 08/07/2008 on commissioning of compressor type SM6000, fabrication # 3210290-20
- /470, Contract # 751 dated 19/10/2007 between Company Samsung Techwin CO., LTD and CJSC "ROSAVA" on compressor station modernization
- /471, Statement dated 08/07/2008 on commissioning of compressor type SM6000, fabrication # 3210290-20
- /472, Statement dated 08/07/2008 on commissioning of compressor type SM6000, fabrication # 3210290-10
- /473, Basic scheme of compressor type SM6000
- /474, Certificate dated 18/12/2007 on fabrication testing of compressor type SM6000, fabrication # 3210290-10
- /475, Certificate dated 19/12/2007 on fabrication testing of compressor type SM6000, fabrication # 3210290-20
- /476, Certificate dated 20/12/2007 on fabrication testing of compressor type SM6000, fabrication # 3210290-30
- /477, Conformity certificate Series ДІ # UA1.014.0137994-10 on SAMSUNG compressors, valid from 10/11/2010 to 27/10/2015
- /478, Photo–general view of compressor station
- /479, Photo–compressor type SM-6000, fabrication # 3210290-10
- /480, Photo–compressor type SM-6000, fabrication # 3210290-20



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- /481, Photo—compressor type SM-6000, fabrication # 3210290-30
- /482, Photo of old compressors
- /483, Order # 815 dated 05/10/2009 on appointment of commission of acceptance P-20 steam supply pipeline to softening agent warehouse
- /484, Instruction # 16 dated 05/02/2009 on reduction of heat losses
- /485, Passport on pipeline, registration # 38 (last calibration date—06/10/2010)
- /486, Contract # ROSAVA/HF21/12/2010/021-32P/10/607 dated 21/12/2010 between CJSC “ROSAVA” and Company “Harburg-Freudenberger Maschinenbau GmbH” on purchase of tyre assembling machines
- /487, Photo—power meter type EA05RAL-C-3, fabrication # 01047167
- /488, Photo—power meter type EA05RAL-C-3, fabrication # 01047160
- /489, Photo—power meter type EA05RAL-C-3, fabrication # 01047165
- /490, Photo—power meter type ZFD, fabrication # 76563048
- /491, Photo—Samsung Turbo Compressor HMI System Display
- /492, Photo—Danfoss frequency transducer, fabrication # 000703H138
- /493, Photo—Danfoss frequency transducer, fabrication # 000403H118
- /494, Photo—Danfoss frequency transducer, fabrication # 000503H128
- /495, Photo—electric and pump aggregate type 1Д101250/63 # 15, fabrication # 4и30
- /496, Photo—electric and pump aggregate type 1Д1250/63 # 16, fabrication # 4и34
- /497, Photo—Danfoss frequency transducer, fabrication # 000303H118
- /498, Photo—Danfoss frequency transducer, fabrication # 000213H330
- /499, Photo—pump type 1Д1250/63 # 26, fabrication # 213
- /500, Photo—pump type 1Д1250/63 # 29, fabrication # 167
- /501, Photo—electric and pump aggregate type 1Д1250/63 # 16, fabrication # 4и33
- /502, Photo—Danfoss frequency transducer, fabrication # 837018H215
- /503, Photo—Danfoss frequency transducer, fabrication # 178B7473
- /504, Photo—Danfoss frequency transducer, fabrication # 636616H115
- /505, Photo—steam supply pipeline, registration # 38
- /506, Photo—power meter type ZMD, fabrication # 76832498
- /507, Photo—power meter type ZMD, fabrication # 76832517
- /508, Photo—power meter type ZMD, fabrication # 96076225
- /509, Photo—power meter type ZMD, fabrication # 96076224
- /510, Photo—power meter type ZMD, fabrication # 76563041
- /511, Photo—power meter type ZMD, fabrication # 76563040
- /512, Photo—power meter type ZMD, fabrication # 76563053
- /513, Photo—electronic scales type CB-5000 ПБ, fabrication # 11450, inventory # 17
- /514, Photo—electronic scales type ТП-5000Д, fabrication # 0298, inventory # 18
- /515, Photo—Berstorff Triplex Line tread aggregate
- /516, Photo—curing presses type KHP 46-150, # 7082500220, serial # 10L
- /517, Photo—curing presses type KHP 46-150, # 7082500220, serial # 5R
- /518, Photo—curing presses type KHP 46-150, # 7082500220, serial # 5L
- /519, Photo—curing presses type KHP 46-150, # 7082500220, serial # 8R
- /520, Photo—curing presses type KHP 46-150, # 7082500220, serial # 2R
- /521, Photo—curing presses type KHP 46-150, # 7082500220, serial # 1R
- /522, Photo—curing presses type KHP 46-150, # 7082500220, serial # 4R
- /523, Photo—curing presses type KHP 46-150, # 7082500220, serial # 7R
- /524, Photo—curing presses type KHP 46-150, # 7082500220, serial # 9R

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- /525, Photo-curing presses type KHP 46-150, # 7082500295, serial # 10L
- /526, Photo-curing presses type KHP 46-150, # 7082500295, serial # 9R
- /527, Photo-curing presses type KHP 46-150, # 7082500295, serial # 8R
- /528, Photo-curing presses type KHP 46-150, # 7082500295, serial # 7R
- /529, Photo-curing presses type KHP 46-150, # 7082500295, serial # 6R
- /530, Photo-curing presses type KHP 46-150, # 7082500295, serial # 5R
- /531, Photo-curing presses type KHP 46-150, # 7082500295, serial # 4R
- /532, Photo-curing presses type KHP 46-150, # 7082500295, serial # 3R
- /533, Photo-curing presses type KHP 46-150, # 7082500295, serial # 2R
- /534, Photo-curing presses type KHP 46-150, # 7082500295, serial # 1R
- /535, Photo-curing presses type KHP 46-150, # 7082500220, serial # 3R
- /536, Photo-pump type 1Д315-71, fabrication # 2874
- /537, Photo-pump type 1Д315-71, fabrication # 2886
- /538, Photo-pump type 1Д315-71, fabrication # 303
- /539, Photo-pump type KC 50-55-2, fabrication # 7457
- /540, Photo- Danfoss frequency transducer, fabrication # 000510H406
- /541, Photo-pump type type ЦНЧ 105-245, fabrication # 568 (# 128)
- /542, Photo-pump type type ЦНЧ 105-245, fabrication # 326 (# 127)
- /543, Photo-Danfoss frequency transducer, fabrication # 000313H260
- /544, Article in the magazine titled "PJSC "ROSAVA" joined Kyoto Protocol
- /545, Permit # 201/17 dated 27/07/2011 on special water consumption, valid till 01/01/2014
- /546, Permit # 267-17 dated 17/06/2011 on wastes allocation in 2012, valid from 01/01/2012 till 31/12/2012, issued by the State Administration on Environmental Protection in Kyiv Region
- /547, Limits on wastes allocation in 2012
- /548, Passport on wastes allocation site, registration # 17-3-1 dated 15/07/2000
- /549, Photo-power meter type SL7000, identification # 30314983
- /550, Photo-power meter type SL7000, identification # 30314934
- /551, Photo-power meter type ЦЭ6803B, identification # 008521036347098
- /552, Photo-power meter type ЦЭ6803B, identification # 008521036347087
- /553, Photo-power meter type ЦЭ6803B, identification # 008521036347095
- /554, Photo-power meter type ЦЭ6803B, identification # 008517041367123
- /555, Photo-power meter type HIK 2301 АП2, identification # 0524579
- /556, Photo-power meter type HIK 2301 АП2, identification # 0547086
- /557, Photo-power meter type CA4E-5030, identification # 0117422
- /558, Photo-power meter type HIK 2301 АП2, identification # 0530127
- /559, Photo-power meter type ЦЭ6803B, identification # 74025812
- /560, Photo-power meter type ZMD, fabrication # 80236439
- /561, Photo-power meter type ZMD, fabrication # 80236433
- /562, Photo-power meter type ZMD, fabrication # 96076223
- /563, Photo-power meter type ZMD, fabrication # 77491815
- /564, Photo-power meter type ZMD, fabrication # 77491811
- /565, Photo-power meter type ЦЭ6803B, fabrication # 008656041368051
- /566, Photo-power meter type ZMD, fabrication # 0636691
- /567, Photo-power meter type ЦЭ6803B, fabrication # 0603491002861965
- /568, Photo-power meter type ЦЭ6803B, fabrication # 75014207



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- /569, Photo–power meter type НIK 2301 АП2, fabrication # 0519812
- /570, Photo–power meter type НIK 2301 АП2, fabrication # 0647707
- /571, Photo–power meter type ЦЭ6803В, fabrication # 43002398
- /572, Photo–on electronic scales type ВН2000-Н, fabrication # 07420
- /573, Photo–power meter type НIK2303АРК-1, fabrication # 0075893
- /574, Photo–power meter type ЦЭ6803В, identification # 0710970308865611
- /575, Photo–power meter type ЦЭ6803В, identification # 0710970308865857
- /576, Photo–Danfoss frequency transducer, fabrication # 178F1814
- /577, Photo–Danfoss frequency transducer, fabrication # 000311H367
- /578, Photo–pump type 1Д800-56АУХЛ4, fabrication # 3H22
- /579, Photo–pump type 1Д800-56АУХЛ4, fabrication # 3H41
- /580, Photo–power meter type 1Д800-56АУХЛ4, identification # 12536
- /581, Photo–flow-meter type ВК-011, fabrication # 349
- /582, Photo–grid water heat exchanger, registration # 94
- /583, Photo–насос type Д320-50 # 732
- /584, Photo–насос type Д320-50 # 605
- /585, Photo–насос type Д320-50 # 951
- /586, Photo–grid water heat exchanger, registration # 93
- /587, Photo–pressure transducer type 265DS, fabrication # 6600006744
- /588, Photo–MITSUBISHI Electric frequency transducer, fabrication # B03N02004
- /589, Photo–Danfoss frequency transducer, fabrication # 000902H088
- /590, Photo–pressure transducer type APR-2000, fabrication # 10082613
- /591, Photo–pressure transducer type APR-2000, fabrication # 10271101
- /592, Photo–pressure transducer type APR-2000, fabrication # 07091897
- /593, Photo–Danfoss frequency transducer, fabrication # 012404G058
- /594, Photo–tyres assembling machine type СПР2-815-1660, fabrication # 4
- /595, Photo– Danfoss frequency transducer, fabrication # 012404G058



**Persons interviewed:**

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

- /1/ O. Daliba, Technical Director PJSC "ROSAVA"
- /2/ M. Shvets, Head of Power Engineering Department PJSC "ROSAVA"
- /3/ O. Goldych, Chief Metrologist PJSC "ROSAVA"
- /4/ V. Dyadenko, Director in Labor Protection & Ecology PJSC "ROSAVA"
- /5/ N. Lisovytska, Head of Human Resources Department PJSC "ROSAVA"
- /6/ M. Chadiuk, Head of Monitoring Group PJSC "ROSAVA"
- /7/ L. Marynkevych, Deputy of the City Council PJSC "ROSAVA"
- /8/ V. Khalabuzar – Managing Partner Climate Protection Bureau LLC

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## DETERMINATION REPORT

## DETERMINATION PROTOCOL

## Check list for determination, according JOINT IMPLEMENTATION DETERMINATION AND VERIFICATION MANUAL (Version 01)

| DVM Paragraph                             | Check Item   | Initial finding   | Draft Conclusion | Final Conclusion |
|---|--|---|------------------|------------------|
| <b>General description of the project</b> |  |   |                  |                  |
| <b>Title of the project</b>               |  |   |                  |                  |
| -   | Is the title of the project presented?   | Yes, project title is "Realization of a complex of energy saving activities at PJSC "ROSAVA"  | OK               | OK               |
| -   | Is the sectoral scope to which the project pertains presented?   | Yes, the sectoral scope is defined as 1 Energy industries (renewable/ non-renewable sources).   | OK               | OK               |
| -   | Is the current version number of the document presented?   | The current version of the document is 01.  | OK               | OK               |
| -   | Is the date when the document was completed presented?   | Yes, the date of PDD completion is 19/10/2012.  | OK               | OK               |
| <b>Description of the project</b>         |  |   |                  |                  |
| -   | Is the purpose of the project included with a concise, summarizing explanation (max. 1-2 pages) of the:<br>a) Situation existing prior to the starting date of the project;<br>b) Baseline scenario; and<br>c) Project scenario (expected outcome, including a technical description)? | Project activities are aimed at improvement in power efficiency of the plant by the implementation of 2 subprojects:<br><br>1. Implementation of energy efficiency measures and modernization of technological equipment on the main production site.<br><br>2. Implementation of energy efficiency measures and modernization of technological equipment on the site of heavy tyres production.<br><br>Without JI project activity the baseline for PJSC "ROSAVA" would involve production equipment maintenance leaving | CAR 01           | OK               |

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| DVM Paragraph                               | Check Item  | Initial finding   | Draft Conclusion | Final Conclusion |
|---|---|---|------------------|------------------|
|   |   | energy resources specific consumption on the same level as before the project activity implementation and thus without reducing GHGs emissions into the atmosphere.<br><b>CAR 01.</b> Please provide explanation of the situation existing prior to the starting date of the project.   |                  |                  |
| -   | Is the history of the project (incl. its JI component) briefly summarized?  | Yes, the history of the project as well as JI component is briefly summarized in the section A.2.   | OK               | OK               |
| <b>Project participants</b>                 |   |   |                  |                  |
| -   | Are project participants and Party(ies) involved in the project listed?   | <b>CAR 02.</b> Please either clarify the Party B or remove the column.  | CAR 02           | OK               |
| -   | Is the data of the project participants presented in tabular format?  | Yes, the data is presented in tabular format.<br><b>CAR 03.</b> Please precisely follow the format stated in "GUIDELINES FOR USERS OF THE JOINT IMPLEMENTATION PROJECT DESIGN DOCUMENT FORM" version 04.  | CAR 03           | OK               |
| -   | Is contact information provided in Annex 1 of the PDD?  | Contact information is provided in Annex 1 of the PDD.  | OK               | OK               |
| -   | Is it indicated, if it is the case, if the Party involved is a host Party?  | Yes, Ukraine is indicated as a Host party.  | OK               | OK               |
| <b>Technical description of the project</b> |   |   |                  |                  |
| <b>Location of the project</b>              |   |   |                  |                  |
| -   | Host Party(ies)   | Ukraine is indicated as a Host party.   | OK               | OK               |
| -   | Region/State/Province etc.  | Kyiv Region   | OK               | OK               |
| -   | City/Town/Community etc.  | Bila Tserkva city   | OK               | OK               |
| -   | Detail of the physical location, including information allowing the unique identification of the project. (This section should not exceed one page) | The project is located on the territory of PJSC "ROSAVA". PJSC "ROSAVA" is located in South-East part of Bila Tserkva city, 80 km distance from Kyiv. Convenient geographical location of the company, presence of railway and Kiev-Odessa highway ensure prompt delivery of tyres to customers in Ukraine and to foreign partners.<br>Geographic coordinates of PJSC "ROSAVA": | OK               | OK               |



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| DVM Paragraph  | Check Item  | Initial finding  | Draft Conclusion         | Final Conclusion |
|--|---|--|--------------------------|------------------|
|  |   | - 49° 78' 49" North latitude;<br>- 49° 78' 49" East longitude.   |                          |                  |
| <b>Technologies to be employed, or measures, operations or actions to be implemented by the project</b>  |   |  |                          |                  |
| -  | Are the technology(ies) to be employed, or measures, operations or actions to be implemented by the project, including all relevant technical data and the implementation schedule described? | Yes, measures, operations and actions to be implemented by the project, including all relevant technical data and the implementation schedule are properly described in the section A.4.2. of the PDD.<br><b>CAR 04.</b> Please provide clear and transparent references to the figures stated in this section.<br><b>CL 01.</b> Please describe more precisely measures to be implemented for the each subproject.<br><b>CL 02.</b> For the relevant subprojects measures please clarify the quantity of the updated installed equipment. | CAR 04<br>CL 01<br>CL 02 | OK               |
| <b>Brief explanation of how the anthropogenic emissions of greenhouse gases by sources are to be reduced by the proposed JI project, including why the emission reductions would not occur in the absence of the proposed project, taking into account national and/or sectoral policies and circumstances</b> |   |  |                          |                  |
| -  | Is it stated how anthropogenic GHG emission reductions are to be achieved? (This section should not exceed one page)  | Yes, anthropogenic GHG emission reductions are to be achieved by the reduction of heat and electric energy consumption by the more energy efficient equipment.   | OK                       | OK               |
| -  | Is it provided the estimation of emission reductions over the crediting period?   | Yes, estimation of emission reductions over the crediting period is provided in the section A.4.3.1.   | OK                       | OK               |
| -  | Is it provided the estimated annual reduction for the chosen credit period in tCO <sub>2</sub> e?   | Yes, the estimated annual reduction for the chosen credit period in tCO <sub>2</sub> e is provided in the section A.4.3.1.   | OK                       | OK               |
| -  | Are the data from questions above presented in tabular format?  | Please refer to <b>CAR 03.</b>   | CAR 03                   | OK               |
| <b>Estimated amount of emission reductions over the crediting period</b>   |   |  |                          |                  |
| -  | Is the length of the crediting period Indicated?  | Yes, the length of the crediting period is indicated.  | OK                       | OK               |
| -  | Are estimates of total as well as annual and average annual emission reductions in tonnes of CO <sub>2</sub> equivalent provided?   | Yes, estimates of total as well as annual and average annual emission reductions in tonnes of CO <sub>2</sub> equivalent are provided in the section A.4.3.1.  | OK                       | OK               |
| <b>Project approvals by Parties</b>  |   |  |                          |                  |



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| DVM Paragraph  | Check Item   | Initial finding  | Draft Conclusion         | Final Conclusion |
|--|--|--|--------------------------|------------------|
| 19   | Have the DFPs of all Parties listed as "Parties involved" in the PDD provided written project approvals?   | <b>CAR 05.</b> No Letters of Approval are available yet. Please provide.   | CAR 05                   | Pending          |
| 19   | Does the PDD identify at least the host Party as a "Party involved"?   | Yes, Ukraine as the Party involved is indicated as the host Party.   | OK                       | OK               |
| 19   | Has the DFP of the host Party issued a written project approval?   | Please refer to <b>CAR 05.</b>   | CAR 05                   | Pending          |
| 20   | Are all the written project approvals by Parties involved unconditional?   | Please refer to <b>CAR 05.</b>   | CAR 05                   | Pending          |
| <b>Authorization of project participants by Parties involved</b> |  |  |                          |                  |
| 21   | Is each of the legal entities listed as project participants in the PDD authorized by a Party involved, which is also listed in the PDD, through:<br>- A written project approval by a Party involved, explicitly indicating the name of the legal entity? or<br>- Any other form of project participant authorization in writing, explicitly indicating the name of the legal entity? | Please refer to <b>CAR 05.</b>   | CAR 05                   | Pending          |
| <b>Baseline setting</b>  |  |  |                          |                  |
| 22   | Does the PDD explicitly indicate which of the following approaches is used for identifying the baseline?<br>- JI specific approach<br>- Approved CDM methodology approach  | Yes, it is clearly stated that JI specific approach is used for identification of the baseline.<br><b>CAR 06.</b> Different parts of the B.1 of the PDD state that baseline is set in accordance with "Guidance on criteria for baseline setting and monitoring" and methodological tool "Combined tool to identify the baseline scenario and demonstrate additionality". Please clearly state the guiding document.<br><b>CL 03.</b> Please correct the version of "Guidance on criteria for baseline setting and monitoring" to <b>03.</b> | CAR 06<br>CL 03<br>CL 04 | OK               |

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| DVM Paragraph                    | Check Item  | Initial finding  | Draft Conclusion           | Final Conclusion |
|----------------------------------|---|--|----------------------------|------------------|
|                                  |   | <b>CL 04.</b> Please correct reference for the methodological tool "Combined tool to identify the baseline scenario and demonstrate additionality".  |                            |                  |
| <b>JI specific approach only</b> |   |  |                            |                  |
| 23                               | Does the PDD provide a detailed theoretical description in a complete and transparent manner?   | <p><b>CAR 07.</b> According to the "Guidance on criteria for baseline setting and monitoring" version 03 there are three options for the baseline establishment, please clearly state, which one is chosen.</p> <p><b>CAR 08.</b> If the CDM methodological tool "Combined tool to identify the baseline scenario and demonstrate additionality" is used please apply it fully and correctly. If the parts of the tool are used please clearly state so.</p> <p><b>CAR 09.</b> Please provide detailed theoretical description of the baseline in a complete and transparent manner.</p>   | CAR 07<br>CAR 08<br>CAR 09 | OK               |
| 23                               | Does the PDD provide justification that the baseline is established:<br>(a) By listing and describing plausible future scenarios on the basis of conservative assumptions and selecting the most plausible one?<br>(b) Taking into account relevant national and/or sectoral policies and circumstance?<br>– Are key factors that affect a baseline taken into account?<br>(c) In a transparent manner with regard to the choice of approaches, assumptions, methodologies, parameters, data sources and key factors?<br>(d) Taking into account of uncertainties and using conservative assumptions?<br>(e) In such a way that ERUs cannot be earned | <p>Yes, justification of the baseline is established by listing and describing plausible future scenarios on the basis of conservative assumptions and selecting the most plausible one, in such a way that ERUs cannot be earned for decreases in activity levels outside the project or due to force majeure, and by drawing on the list of standard variables contained in appendix B to "Guidance on criteria for baseline setting and monitoring".</p> <p><b>CAR 10.</b> Please provide analysis of the relevant national and/or sectoral policies and circumstance with the effect of the key factors taken into account.</p> <p><b>CAR 11.</b> Please provide evidence that that plant did not need modernization and could continue its operation as it was.</p> <p><b>CAR 12.</b> Please clearly state how was uncertainties and conservative approach accounted.</p> | CAR 10<br>CAR 11<br>CAR 12 | OK               |





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| DVM Paragraph | Check Item  | Initial finding   | Draft Conclusion  | Final Conclusion |
|---------------|---|---|---|------------------|
|               | for decreases in activity levels outside the project or due to force majeure?<br>(f) By drawing on the list of standard variables contained in appendix B to "Guidance on criteria for baseline setting and monitoring", as appropriate?                                  |   |   |                  |
| 24            | If selected elements or combinations of approved CDM methodologies or methodological tools for baseline setting are used, are the selected elements or combinations together with the elements supplementary developed by the project participants in line with 23 above? | Please see section above.   | -   | OK               |
| 25            | If a multi-project emission factor is used, does the PDD provide appropriate justification?   | <p>Yes, PDD uses multi-project emission factor issued by the State Environmental Agency of Ukraine.</p> <p><b>CAR 13.</b> CO2 emission factor for energy consumption by the 1 class of consumers was developed by the Ministry of Economic Affairs of the Netherlands for 2004-2005, by the Global Carbon B.V. company and determined by the TUEV SUED company for 2006-2007. Please correct.</p> <p><b>CAR 14.</b> For the specific electricity and heat consumption please provide detailed information on the source of data and the method of measurement.</p> <p><b>CAR 15.</b> Please identify the method of the amount of the processed rubber compounds since it is not measured but electronically estimated as site visit reflected.</p> <p><b>CAR 16.</b> Please provide clear justification of the heat generation energy efficiency choice since it should be different for each type of the equipment.</p> <p><b>CAR 34.</b> Please explain the value of project amount of processed rubber compounds on the main site and in heavy</p> | <p>CAR 13</p> <p>CAR 14</p> <p>CAR 15</p> <p>CAR 16</p> <p>CAR 34</p> | OK               |



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| DVM Paragraph   | Check Item  | Initial finding   | Draft Conclusion | Final Conclusion |
|---|---|---|------------------|------------------|
|   |   | tyres production starting from 2012 since this data is not available yet.   |                  |                  |
| <b>Approved CDM methodology approach only_Paragraphs 26(a) – 26(d)_Not applicable</b> |   |   |                  |                  |
| <b>Additionality</b>  |   |   |                  |                  |
| <b>JI specific approach only</b>  |   |   |                  |                  |
| 28  | Does the PDD indicate which of the following approaches for demonstrating additionality is used?<br>(a) Provision of traceable and transparent information showing the baseline was identified on the basis of conservative assumptions, that the project scenario is not part of the identified baseline scenario and that the project will lead to emission reductions or enhancements of removals;<br>(b) Provision of traceable and transparent information that an AIE has already positively determined that a comparable project (to be) implemented under comparable circumstances has additionality;<br>(c) Application of the most recent version of the “Tool for the demonstration and assessment of additionality. (allowing for a two-month grace period) or any other method for proving additionality approved by the CDM Executive Board”. | Yes, it is clearly stated in the PDD that “Tool for the demonstration and assessment of additionality” is used in its last version.<br><b>CAR 17.</b> Please precisely follow the tool (including wording of the main points, outcomes etc.). | CAR 17           | OK               |
| 29 (a)  | Does the PDD provide a justification of the applicability of the approach with a clear and transparent description?   | Yes, the choice of the additionality tool is clearly identified in the PDD section B.2.   | OK               | OK               |
| 29 (b)  | Are additionality proofs provided?  | <b>CAR 18.</b> Please provide justification of the barriers in a more transparent and specific way. Additionality tool may assist.  | CAR 18<br>CAR 19 | OK               |



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| DVM Paragraph   | Check Item   | Initial finding   | Draft Conclusion                    | Final Conclusion |
|---|--|---|-------------------------------------|------------------|
|   |  | <p><b>CL 05.</b> PDD states: "Many high-qualified specialists from leading foreign and Ukrainian companies are involved in the realization of the project. It allows to minimize technological barriers mentioned" means that there is no technological barrier at all. Please clarify.</p> <p><b>CAR 19.</b> Please note that as per Guidance the input data shall be based on the information available at the moment of the decision making. Taking into account that the major part (almost 90%) of investments were made during 2007-2009 I suggest considering the end of 2006/beginning 2007 as the moment of the investment decision.</p> <p><b>CAR 20.</b> As for the inflation rate The Guidance suggests using the data from World Economic Outlook published by IMF. In our case we can refer to WEO published in September 2006 giving forecast inflation rate for 2007 as 2.4%.</p> <p><b>CAR 21.</b> The same applies to electrical and heat energy tariffs. I suggest using tariffs as of 2006 as the base with annual adjustment beginning from 2007 by 2.4%.</p> <p><b>CAR 22.</b> Please recalculate sensitivity analysis.</p> | CAR 20<br>CAR 21<br>CAR 22<br>CL 05 |                  |
| 29 (c)  | Is the additionality demonstrated appropriately as a result?   | Pending until resolution of the previous CARs and CLs of this section.  | -                                   | OK               |
| 30  | If the approach 28 (c) is chosen, are all explanations, descriptions and analyses made in accordance with the selected tool or method? | Please see above.   | OK                                  | OK               |
| <b>Approved CDM methodology approach only_ Paragraphs 31(a) – 31(e)_ Not applicable</b> |  |   |                                     |                  |
| <b>Project boundary (applicable except for JI LULUCF projects</b>                       |  |   |                                     |                  |
| <b>JI specific approach only</b>  |  |   |                                     |                  |
| 32 (a)  | Does the project boundary defined in the PDD encompass all anthropogenic emissions   | <b>CAR 23.</b> Please provide define which emission sources of GHGs are:  | CAR 23                              | OK               |

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|  | by sources of GHGs that are:<br>(i) Under the control of the project participants?<br>(ii) Reasonably attributable to the project?<br>(iii) Significant?                        | (i) Under the control of the project participants?<br>(ii) Reasonably attributable to the project?<br>(iii) Significant?   |                  |                  |
| 32 (b)   | Is the project boundary defined on the basis of a case-by-case assessment with regard to the criteria referred to in 32 (a) above?  | Yes, project boundary is defined on the basis of a case-by-case assessment.  | OK               | OK               |
| 32 (c)   | Are the delineation of the project boundary and the gases and sources included appropriately described and justified in the PDD by using a figure or flow chart as appropriate? | <b>CAR 24.</b> Please provide the delineation of the project boundary and the gases and sources included by using a figure or flow chart.  | CAR 24           | OK               |
| 32 (d)   | Are all gases and sources included explicitly stated, and the exclusions of any sources related to the baseline or the project are appropriately justified?                     | Yes, all gases and sources included are explicitly stated, and the exclusions of any sources related to the baseline or the project are appropriately justified.<br>Main source of the emissions is CO <sub>2</sub> from electric and heat energy consumption. | OK               | OK               |
| <b>Approved CDM methodology approach only_Paragraph 33_ Not applicable</b> |   |  |                  |                  |
| <b>Crediting period</b>  |   |  |                  |                  |
| 34 (a)   | Does the PDD state the starting date of the project as the date on which the implementation or construction or real action of the project will begin or began?                  | Yes, the starting date of the project is February 10, 2000, which is the date of decision of the start of the measure "Processed heat utilization for further consumption for main production site premises heating, and consumption by the technologies".     | OK               | OK               |
| 34 (a)   | Is the starting date after the beginning of 2000?   | Yes, the starting date is after the beginning of 2000.   | OK               | OK               |
| 34 (b)   | Does the PDD state the expected operational lifetime of the project in years and months?  | Operational lifetime of the project is 17 years (204 months).<br><b>CAR 25.</b> Please provide justification for the equipment life time for the 17 years.   | CAR 25           | OK               |
| 34 (c)   | Does the PDD state the length of the crediting period in years and months?  | Yes, crediting period is 17 years (204 months).  | OK               | OK               |
| 34 (c)   | Is the starting date of the crediting period on or  | Yes, the starting date of the crediting period is on the date of   | OK               | OK               |

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|                                  | after the date of the first emission reductions or enhancements of net removals generated by the project?   | the first emission reductions or enhancements of net removals generated by the project.   |                  |                  |
| 34 (d)                           | Does the PDD state that the crediting period for issuance of ERUs starts only after the beginning of 2008 and does not extend beyond the operational lifetime of the project?   | <b>CAR 26.</b> The starting date of the crediting period is before 2008. Please note that the crediting period for issuance ERUs may be only in between 2008 and 2012. For the period before 2008 please provide appropriate description. | CAR 26           | OK               |
| 34 (d)                           | If the crediting period extends beyond 2012, does the PDD state that the extension is subject to the host Party approval?<br>Are the estimates of emission reductions or enhancements of net removals presented separately for those until 2012 and those after 2012? | Yes, the crediting period extends beyond 2012.<br><b>CL 06.</b> Please clarify whether the extension is subject to the host Party approval.<br><br>The estimates of emission reductions are presented separately for those after 2012.    | CL 06            | OK               |
| <b>Monitoring plan</b>           |   |   |                  |                  |
| 35                               | Does the PDD explicitly indicate which of the following approaches is used?<br>– JI specific approach<br>– Approved CDM methodology approach  | PDD uses JI specific approach.<br><b>CAR 27.</b> Please clearly identify that JI specific approach is used in the PDD.  | CAR 27           | OK               |
| <b>JI specific approach only</b> |   |   |                  |                  |
| 36 (a)                           | Does the monitoring plan describe:<br>– All relevant factors and key characteristics that will be monitored?<br>– The period in which they will be monitored?<br>– All decisive factors for the control and reporting of project performance?                         | <b>CAR 28.</b> Please provide full and transparent description of the monitoring plan.<br><b>CL 07.</b> Please briefly indicate relevant key factors and characteristics to be monitored.   | CAR 28<br>CL 07  | OK               |
| 36 (b)                           | Does the monitoring plan specify the indicators, constants and variables used that are reliable, valid and provide transparent picture of the emission reductions or enhancements of net removals to be monitored?  | Yes, monitoring plan clearly specifies the indicators, constants and variables used.<br><b>CAR 29.</b> Please note that amount of processed rubber materials is not measured but calculated value. Please correct.                        | CAR 29           | OK               |



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| 36 (b)        | If default values are used:<br>- Are accuracy and reasonableness carefully balanced in their selection?<br>- Do the default values originate from recognized sources?<br>- Are the default values supported by statistical analyses providing reasonable confidence levels?<br>- Are the default values presented in a transparent manner? | Default values used are:<br>- Appropriately selected<br>- Taken from the recognized sources<br>- Supported by statistical data from the plant or national/international sources (IPCC, UNFCCC, SEIA)<br>- Presented in a transparent manner | OK               | OK               |
| 36 (b) (i)    | For those values that are to be provided by the project participants, does the monitoring plan clearly indicate how the values are to be selected and justified?   | Yes, values obtained from the PP are clearly traceable and properly sourced.  | OK               | OK               |
| 36 (b) (ii)   | For other values,<br>- Does the monitoring plan clearly indicate the precise references from which these values are taken?<br>- Is the conservativeness of the values provided justified?  | Yes, monitoring plan clearly indicates the precise references from which these values are taken ( plant records, national inventory of Ukraine, SEIA orders etc).<br>Please also refer to <b>CAR 16</b> .                                   | -                | OK               |
| 36 (b) (iii)  | For all data sources, does the monitoring plan specify the procedures to be followed if expected data are unavailable?   | <b>CL 08</b> . Please clarify the procedures to be followed if expected data are unavailable.   | CL 08            | OK               |
| 36 (b) (iv)   | Are International System Unit (SI units) used?   | Yes, International System Unit (SI units) is used.  | OK               | OK               |
| 36 (b) (v)    | Does the monitoring plan note any parameters, coefficients, variables, etc. that are used to calculate baseline emissions or net removals but are obtained through monitoring?   | Monitoring plan envisages the monitoring of the coefficients that are used to calculate baseline emissions during the whole crediting period.   | OK               | OK               |
| 36 (b) (v)    | Is the use of parameters, coefficients, variables, etc. consistent between the baseline and monitoring plan?   | Yes, the use of parameters, coefficients, variables, etc. Is consistent between the baseline and monitoring plan.   | OK               | OK               |



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| DVM Paragraph | Check Item   | Initial finding  | Draft Conclusion | Final Conclusion |
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| 36 (c)        | Does the monitoring plan draw on the list of standard variables contained in appendix B of "Guidance on criteria for baseline setting and monitoring"?   | Yes, monitoring plan draws on the list of standard variables contained in appendix B of "Guidance on criteria for baseline setting and monitoring".  | OK               | OK               |
| 36 (d)        | Does the monitoring plan explicitly and clearly distinguish:<br>(i) Data and parameters that are not monitored throughout the crediting period, but are determined only once (and thus remain fixed throughout the crediting period), and that are available already at the stage of determination?<br>(ii) Data and parameters that are not monitored throughout the crediting period, but are determined only once (and thus remain fixed throughout the crediting period), but that are not already available at the stage of determination?<br>(iii) Data and parameters that are monitored throughout the crediting period? | <b>CAR 30.</b> Please clearly distinguish:<br>(i) Data and parameters that are not monitored throughout the crediting period, but are determined only once (and thus remain fixed throughout the crediting period), and that are available already at the stage of determination.<br>(ii) Data and parameters that are not monitored throughout the crediting period, but are determined only once (and thus remain fixed throughout the crediting period), but that are not already available at the stage of determination.<br>(iii) Data and parameters that are monitored throughout the crediting period.   | CAR 30           | OK               |
| 36 (e)        | Does the monitoring plan describe the methods employed for data monitoring (including its frequency) and recording?  | Yes, monitoring plan describes the methods employed for data monitoring and recording.<br>The Chairman of the Board of the Board – General director of PJSC "ROSAVA" assigns staff to duties that include operation and maintenance of technological equipment involved in the project. These functions include also recording of all data required for the monitoring. Chief of electric power department of PJSC "ROSAVA" will be in head of the monitoring team. Monitoring is to be performed in a close communication with process control staff, and will include monitoring itself, and also analysis and archivation of all data defined in the section above. Organizational activity | OK               | OK               |



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|               |   | on calculation of emission reductions will also be in scope of monitoring group activity. On manager's errand joint implementation project developer performs calculations of emission reduction. For proving the authenticity of periodic data on energy consumption, they will be analyzed according to relevant registered parameters, provided by process control stuff. If discrepancies between data appear, their origin is to be defined in cooperation with process control stuff. If inconsistency of data is discovered in monitoring, relevant corrections are to be done in monitoring of the relevant parameter. |                  |                  |
| 36 (f)        | Does the monitoring plan elaborate all algorithms and formulae used for the estimation/calculation of baseline emissions/removals and project emissions/removals or direct monitoring of emission reductions from the project, leakage, as appropriate? | Yes, monitoring plan elaborates all algorithms and formulae used for the estimation/calculation of baseline emissions and project emissions.   | OK               | OK               |
| 36 (f) (i)    | Is the underlying rationale for the algorithms/formulae explained?  | Yes, underlying rationale for the algorithms/formulae is explained.  | OK               | OK               |
| 36 (f) (ii)   | Are consistent variables, equation formats, subscripts etc. used?   | Yes, variables, equations etc are consistent throughout the document.  | OK               | OK               |
| 36 (f) (iii)  | Are all equations numbered?   | Yes, all equations are numbered.   | OK               | OK               |
| 36 (f) (iv)   | Are all variables, with units indicated defined?  | Yes, all variables with units indicated are defined.   | OK               | OK               |
| 36 (f) (v)    | Is the conservativeness of the algorithms/procedures justified?   | <b>CL 09.</b> Please clarify whether conservative assumptions have been used.  | CL 09            | OK               |
| 36 (f) (v)    | To the extent possible, are methods to quantitatively account for uncertainty in key parameters included?   | <b>CL 10.</b> Please clarify how uncertainty was accounted.  | CL 10            | OK               |
| 36 (f) (vi)   | Is consistency between the elaboration of the baseline scenario and the procedure for   | Yes, consistency between the elaboration of the baseline scenario and the procedure for calculating the emissions or   | OK               | OK               |



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| DVM Paragraph | Check Item   | Initial finding  | Draft Conclusion | Final Conclusion |
|---------------|--|--|------------------|------------------|
|               | calculating the emissions or net removals of the baseline ensured?   | net removals of the baseline is ensured.   |                  |                  |
| 36 (f) (vii)  | Are any parts of the algorithms or formulae that are not self-evident explained?   | No, there are no parts of the algorithms or formulae that are not self-evident explained.                                    | OK               | OK               |
| 36 (f) (vii)  | Is it justified that the procedure is consistent with standard technical procedures in the relevant sector?  | Yes, procedure is consistent with national laws and regulations.   | OK               | OK               |
| 36 (f) (vii)  | Are references provided as necessary?  | Section D is clearly referenced.   | OK               | OK               |
| 36 (f) (vii)  | Are implicit and explicit key assumptions explained in a transparent manner?   | Please see <b>CL 07</b> .  | CL 07            | OK               |
| 36 (f) (vii)  | Is it clearly stated which assumptions and procedures have significant uncertainty associated with them, and how such uncertainty is to be addressed?  | Please refer to <b>CL 10</b> .   | CL 10            | OK               |
| 36 (f) (vii)  | Is the uncertainty of key parameters described and, where possible, is an uncertainty range at 95% confidence level for key parameters for the calculation of emission reductions or enhancements of net removals provided?  | Please refer to <b>CL 10</b> .   | CL 10            | OK               |
| 36 (g)        | Does the monitoring plan identify a national or international monitoring standard if such standard has to be and/or is applied to certain aspects of the project?<br>Does the monitoring plan provide a reference as to where a detailed description of the standard can be found? | Yes, procedure is consistent with national laws and regulations.<br>At the same time PJSC "ROSAVA" is certified under.       | OK               | OK               |
| 36 (h)        | Does the monitoring plan document statistical techniques, if used for monitoring, and that they are used in a conservative manner?   | Yes, monitoring plan documents statistical techniques and that they are used in a conservative manner.                       | OK               | OK               |
| 36 (i)        | Does the monitoring plan present the quality assurance and control procedures for the  | All the monitoring equipment is subject to regular calibration in accordance with the Ukrainian legislation. Checked onsite. | OK               | OK               |



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| DVM Paragraph | Check Item   | Initial finding  | Draft Conclusion | Final Conclusion |
|---------------|--|--|------------------|------------------|
|               | monitoring process, including, as appropriate, information on calibration and on how records on data and/or method validity and accuracy are kept and made available upon request?   |  |                  |                  |
| 36 (j)        | Does the monitoring plan clearly identify the responsibilities and the authority regarding the monitoring activities?  | Yes, monitoring plan clearly identifies the responsibilities and the authority regarding the monitoring activities.<br><b>CL 11.</b> Please clarify who is the head of monitoring team?  | CL 11            | OK               |
| 36 (k)        | Does the monitoring plan, on the whole, reflect good monitoring practices appropriate to the project type?<br>If it is a JI LULUCF project, is the good practice guidance developed by IPCC applied?   | Yes, monitoring plan reflects current good practices.  | OK               | OK               |
| 36 (l)        | Does the monitoring plan provide, in tabular form, a complete compilation of the data that need to be collected for its application, including data that are measured or sampled and data that are collected from other sources but not including data that are calculated with equations? | Yes, the monitoring plan provides, in tabular form, a complete compilation of the data that need to be collected for its application, including data that are measured or sampled and data that are collected from other sources but not including data that are calculated with equations.<br><b>CAR 31.</b> Please double check input data for project electricity consumption on the main production site, project heat consumption in heavy tyres production since recalculation showed discrepancy between raw data and the one in PDD. | CAR 31           | OK               |
| 36 (m)        | Does the monitoring plan indicate that the data monitored and required for verification are to be kept for two years after the last transfer of ERUs for the project?  | Yes, the monitoring plan indicates that the data monitored and required for verification are to be kept for two years after the last transfer of ERUs for the project.   | OK               | OK               |
| 37            | If selected elements or combinations of approved CDM methodologies or methodological tools are used for establishing the monitoring plan, are the selected elements or combination, together with elements   | N/a  | n/a              | n/a              |





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|  | supplementary developed by the project participants in line with 36 above?  |  |                  |                  |
| <b>Approved CDM methodology approach only_Paragraphs 38(a) – 38(d)_Not applicable</b>                            |   |  |                  |                  |
| <b>Applicable to both JI specific approach and approved CDM methodology approach_Paragraph 39_Not applicable</b> |   |  |                  |                  |
| <b>Leakage</b>   |   |  |                  |                  |
| <b>JI specific approach only</b>   |   |  |                  |                  |
| 40 (a)   | Does the PDD appropriately describe an assessment of the potential leakage of the project and appropriately explain which sources of leakage are to be calculated and which can be neglected?   | The project does not foreseen leakage.   | OK               | OK               |
| 40 (b)   | Does the PDD provide a procedure for an ex ante estimate of leakage?  | n/a  | n/a              | n/a              |
| <b>Approved CDM methodology approach only_Paragraph 41_Not applicable</b>  |   |  |                  |                  |
| <b>Estimation of emission reductions or enhancements of net removals</b>   |   |  |                  |                  |
| 42   | Does the PDD indicate which of the following approaches it chooses?<br>(a) Assessment of emissions or net removals in the baseline scenario and in the project scenario<br>(b) Direct assessment of emission reductions   | PDD indicates that the approach chosen is assessment of emissions in the baseline scenario and in the project scenario.  | OK               | OK               |
| 43   | If the approach (a) in 42 is chosen, does the PDD provide ex ante estimates of:<br>(a) Emissions or net removals for the project scenario (within the project boundary)?<br>(b) Leakage, as applicable?<br>(c) Emissions or net removals for the baseline scenario (within the project boundary)?<br>(d) Emission reductions or enhancements of net removals adjusted by leakage? | Yes, PDD provides emissions for the baseline and project scenario as well as the emission reductions. Leakage is not foreseen.<br><b>CAR 32.</b> Please double check calculation of the baseline emissions since cross-checking showed the discrepancy.<br>Please also refer to <b>CAR 03.</b> | CAR 32<br>CAR 03 | OK               |
| 44   | If the approach (b) in 42 is chosen, does the   | N/a  | N/a              | N/a              |



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| DVM Paragraph | Check Item   | Initial finding  | Draft Conclusion | Final Conclusion |
|---------------|--|--|------------------|------------------|
|               | PDD provide ex ante estimates of:<br>(a) Emission reductions or enhancements of net removals (within the project boundary)?<br>(b) Leakage, as applicable?<br>(c) Emission reductions or enhancements of net removals adjusted by leakage?   |  |                  |                  |
| 45            | For both approaches in 42<br>(a) Are the estimates in 43 or 44 given:<br>(i) On a periodic basis?<br>(ii) At least from the beginning until the end of the crediting period?<br>(iii) On a source-by-source/sink-by-sink basis?<br>(iv) For each GHG?<br>(v) In tones of CO <sub>2</sub> equivalent, using global warming potentials defined by decision 2/CP.3 or as subsequently revised in accordance with Article 5 of the Kyoto Protocol?<br>(b) Are the formula used for calculating the estimates in 43 or 44 consistent throughout the PDD?<br>(c) For calculating estimates in 43 or 44, are key factors influencing the baseline emissions or removals and the activity level of the project and the emissions or net removals as well as risks associated with the project taken into account, as appropriate?<br>(d) Are data sources used for calculating the estimates in 43 or 44 clearly identified, reliable and transparent? | Estimates of the baseline and project emissions and emission reductions are given on a periodic basis from the beginning till the end of the crediting period, on a source-by-source basis for CO <sub>2</sub> in tones of CO <sub>2</sub> equivalent.<br><br>Yes, all the formulae are consistent throughout the PDD.<br><br>Please refer to <b>CL 07</b> .<br><br>Data sources are clearly identified. | OK               | OK               |



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| DVM Paragraph   | Check Item  | Initial finding  | Draft Conclusion | Final Conclusion |
|---|---|--|------------------|------------------|
|   | <p>(e) Are emission factors (including default emission factors) if used for calculating the estimates in 43 or 44 selected by carefully balancing accuracy and reasonableness, and appropriately justified of the choice?</p> <p>(f) Is the estimation in 43 or 44 based on conservative assumptions and the most plausible scenarios in a transparent manner?</p> <p>(g) Are the estimates in 43 or 44 consistent throughout the PDD?</p> <p>(h) Is the annual average of estimated emission reductions or enhancements of net removals calculated by dividing the total estimated emission reductions or enhancements of net removals over the crediting period by the total months of the crediting period and multiplying by twelve?</p> | <p>Emission factors used are appropriately justified.</p> <p>Please refer to <b>CL 09</b>.</p> <p>All the estimates are consistent throughout the PDD.</p> <p>Annual average of estimated emission reductions are calculated in a correct way.</p> |                  |                  |
| 46  | If the calculation of the baseline emissions or net removals is to be performed ex post, does the PDD include an illustrative ex ante emissions or net removals calculation?  | N/a  | N/a              | N/a              |
| <b>Approved CDM methodology approach only_Paragraphs 47(a) – 47(b)_Not applicable</b> |   |  |                  |                  |
| <b>Environmental impacts</b>  |   |  |                  |                  |
| 48 (a)  | Does the PDD list and attach documentation on the analysis of the environmental impacts of the project, including transboundary impacts, in accordance with procedures as determined by the host Party?   | <p><b>CAR 33.</b> Please indicate environmental impacts of the project (on the soil, water air etc) and relevant documentation.</p> <p>No transboundary effect is envisaged by the project.</p>  | CAR 33           | OK               |
| 48 (b)  | If the analysis in 48 (a) indicates that the environmental impacts are considered significant by the project participants or the  | Please see above.  | OK               | OK               |



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|--|--|---|------------------|------------------|
|  | host Party, does the PDD provide conclusion and all references to supporting documentation of an environmental impact assessment undertaken in accordance with the procedures as required by the host Party?   |   |                  |                  |
| <b>Stakeholder consultation</b>  |  |   |                  |                  |
| 49   | If stakeholder consultation was undertaken in accordance with the procedure as required by the host Party, does the PDD provide:<br>(a) A list of stakeholders from whom comments on the projects have been received, if any?<br>(b) The nature of the comments?<br>(c) A description on whether and how the comments have been addressed? | Stakeholders' comments will be collected during publishing of the project within the determination procedure. | OK               | OK               |
| <b>Determination regarding small-scale projects (additional elements for assessment)_Paragraphs 50 - 57_Not applicable</b> |  |   |                  |                  |
| <b>Determination regarding land use, land-use change and forestry projects _Paragraphs 58 – 64(d)_Not applicable</b>       |  |   |                  |                  |
| <b>Determination regarding programmes of activities_Paragraphs 66 – 73_Not applicable</b>                                  |  |   |                  |                  |

**Table 2 Resolution of Corrective Action and Clarification Requests**

| Draft report clarifications and corrective action requests by validation team                                  | Ref. to checklist question in table 1 | Summary of project participant response                    | Determination team conclusion |
|--|---------------------------------------|--|-------------------------------|
| <b>CAR 01.</b> Please provide explanation of the situation existing prior to the starting date of the project. | -                                     | Relevant corrections were provided to the PDD section A.1. | Issue is closed.              |



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| <b>CAR 02.</b> Please either clarify the Party B or remove the column.  | -  | Relevant corrections were provided to the PDD section A.3.  | Issue is closed. |
| <b>CAR 03.</b> Please precisely follow the format stated in "GUIDELINES FOR USERS OF THE JOINT IMPLEMENTATION PROJECT DESIGN DOCUMENT FORM" version 04. | -  | Relevant corrections were provided to the PDD section A.3.<br><b>KZ:</b> Please double check sections A.4.3.1. and E.6.<br><b>D:</b> Relevant corrections were provided to the PDD sections A.4.3.1. and E.6. | Issue is closed. |
| <b>CAR 04.</b> Please provide clear and transparent references to the figures stated in this section.   | -  | Relevant corrections were provided to the PDD section A.4.2.<br><b>KZ:</b> Please provide calculation file to the verifier.<br><b>D:</b> Appropriate calculation was provided.                                | Issue is closed. |
| <b>CL 01.</b> Please describe more precisely measures to be implemented for the each subproject.  | -  | Relevant corrections were provided to the PDD section A.4.2.  | Issue is closed. |
| <b>CL 02.</b> For the relevant subprojects measures please clarify the quantity of the updated installed equipment.                                     | -  | Relevant corrections were provided to the PDD section A.4.2.  | Issue is closed. |
| <b>CAR 05.</b> No Letters of Approval are available yet. Please provide.  | 19 | Letters of Approval will be available after the finalization of determination procedure.  | Pending.         |



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| <b>CAR 06.</b> Different parts of the B.1 of the PDD state that baseline is set in accordance with "Guidance on criteria for baseline setting and monitoring" and methodological tool "Combined tool to identify the baseline scenario and demonstrate additionality". Please clearly state the guiding document. | 22 | Relevant corrections were provided to the PDD section B.1. | Issue is closed. |
| <b>CL 03.</b> Please correct the version of "Guidance on criteria for baseline setting and monitoring" to 03.   | 22 | Relevant corrections were provided to the PDD section B.1. | Issue is closed. |
| <b>CL 04.</b> Please correct reference for the methodological tool "Combined tool to identify the baseline scenario and demonstrate additionality".   | 22 | Relevant corrections were provided to the PDD section B.1. | Issue is closed. |
| <b>CAR 07.</b> According to the "Guidance on criteria for baseline setting and monitoring" version 03 there are three options for the baseline establishment, please clearly state, which one is chosen.  | 23 | Relevant corrections were provided to the PDD section B.1. | Issue is closed. |
| <b>CAR 08.</b> If the CDM methodological tool "Combined tool to identify the baseline scenario and demonstrate additionality" is used please apply it fully and correctly. If the parts of the tool are used please clearly state so.   | 23 | Relevant corrections were provided to the PDD section B.1. | Issue is closed. |





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| <b>CAR 09.</b> Please provide detailed theoretical description of the baseline in a complete and transparent manner.   | 23 | Relevant corrections were provided to the PDD section B.1.<br><b>KZ:</b> No theoretical description is provided. Please at least provide a reference to the theoretical description (formulae in section D) of the baseline.<br><b>D:</b> Relevant corrections were provided to the PDD section B.1. | Issue is closed. |
| <b>CAR 10.</b> Please provide analysis of the relevant national and/or sectoral policies and circumstance with the effect of the key factors taken into account. | 23 | Relevant corrections were provided to the PDD section B.1.   | Issue is closed. |
| <b>CAR 11.</b> Please provide evidence that plant did not need modernization and could continue its operation as it was.   | 23 | Proof was provided to AIE.   | Issue is closed. |
| <b>CAR 12.</b> Please clearly state how was uncertainties and conservative approach accounted.   | 23 | Relevant corrections were provided to the PDD section B.1.<br><b>KZ:</b> Conservative approach is still not indicated. And it is impossible for the uncertainty to be absent. Please correct.<br><b>D:</b> Relevant corrections were provided to the PDD section B.1.                                |                  |



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| <p><b>CAR 13.</b> CO2 emission factor for energy consumption by the 1 class of consumers was developed by the Ministry of Economic Affairs of the Netherlands for 2004-2005, by the Global Carbon B.V. company and determined by the TUEV SUED company for 2006-2007. Please correct.</p> | 25 | <p>As per «Operational for Guidelines Project Design Documents of Joint Implementation Projects. Volume 1: General guidelines» (Version 2.3), the value is:<br/>         2004 – 0,916;<br/>         2005 – 0,896.<br/>         As per Study «Standardized emission factors for the Ukrainian electricity grid» (Version 5), the value equals:<br/>         2006 – 0,896;<br/>         2007 – 0,896.</p> | Issue is closed. |
| <p><b>CAR 14.</b> For the specific electricity and heat consumption please provide detailed information on the source of data and the method of measurement.</p>  | 25 | <p>Relevant corrections were provided to the PDD section B.1. and Annex 3.</p>  | Issue is closed. |
| <p><b>CAR 15.</b> Please identify the method of the amount of the processed rubber compounds since it is not measured but electronically estimated as site visit reflected.</p>   | 25 | <p>Relevant corrections were provided to the PDD section B.1. and D.</p>  | Issue is closed. |



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| <p><b>CAR 16.</b> Please provide clear justification of the heat generation energy efficiency choice since it should be different for each type of the equipment.</p> | 25 | <p>Since different equipment is used for the definition of this parameter conservative approach was used, which is why the maximum value of this parameter was applied in accordance with the “Tool determine the baseline efficiency of thermal or electric energy generation systems” (version 01), Table 1.</p> <p><b>KZ:</b> This is opposite to conservative approach! The minimum value of the heat generation energy efficiency must be used (either from National Inventory, IPCC, plant records etc).</p> <p><b>D:</b> In the case of heat generation energy efficiency using of the maximum value is conservative since the higher energy efficiency the lower is amount of the fuel, which is needed to be combusted for the obtaining relevant amount of heat. Less fuel burned less emissions of the GHGs.</p> | Issue is closed. |
| <p><b>CAR 17.</b> Please precisely follow the tool (including wording of the main points, outcomes etc.).</p>   | 28 | <p>Relevant corrections were provided to the PDD section B.2</p>  | Issue is closed. |



## DETERMINATION REPORT

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| <p><b>CAR 18.</b> Please provide justification of the barriers in a more transparent and specific way. Additionality tool may assist.</p>   | 29 (b) | <p>In accordance with the “Tool for demonstration and assessment of additionality” barrier analysis was removed from the PDD version 02 since additionality of the project is proven with the help of investment analysis.</p> | Issue is closed. |
| <p><b>CL 05.</b> PDD states: “Many high-qualified specialists from leading foreign and Ukrainian companies are involved in the realization of the project. It allows to minimize technological barriers mentioned” means that there is no technological barrier at all. Please clarify.</p>   | 29 (b) | <p>In accordance with the “Tool for demonstration and assessment of additionality” barrier analysis was removed from the PDD version 02 since additionality of the project is proven with the help of investment analysis.</p> | Issue is closed. |
| <p><b>CAR 19.</b> Please note that as per Guidance the input data shall be based on the information available at the moment of the decision making. Taking into account that the major part (almost 90%) of investments were made during 2007-2009 I suggest considering the end of 2006/beginning 2007 as the moment of the investment decision.</p> | 29 (b) | <p>Appropriate changes are provided to the PDD section B.2.</p>  | Issue is closed. |
| <p><b>CAR 20.</b> As for the inflation rate The Guidance suggests using the data from World Economic Outlook published by IMF. In our case we can refer to WEO published in September 2006 giving forecast inflation rate for 2007 as 2.4%.</p>   | 29 (b) | <p>Appropriate changes are provided to the PDD section B.2.</p>  | Issue is closed. |



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| <p><b>CAR 21.</b> The same applies to electrical and heat energy tariffs. I suggest using tariffs as of 2006 as the base with annual adjustment beginning from 2007 by 2.4%.</p>  | 29 (b) | Appropriate changes are provided to the PDD section B.2.  | Issue is closed. |
| <p><b>CAR 22.</b> Please recalculate sensitivity analysis.</p>  | 29 (b) | Appropriate changes are provided to the PDD section B.2.  | Issue is closed. |
| <p><b>CAR 23.</b> Please provide define which emission sources of GHGs are:<br/>         (i) Under the control of the project participants?<br/>         (ii) Reasonably attributable to the project?<br/>         (iii) Significant?</p> | 32 (a) | <p>Relevant corrections were provided to the PDD section B.3.</p> <p><b>KZ:</b> 1. The distribution of the emissions according to the abovementioned criteria is still not available. Please provide.</p> <p>2. Energy enterprises cannot be included to the project boundaries since they are not under PPs control. Please correct or paraphrase.</p> <p><b>D:</b> Relevant corrections were provided to the PDD section B.3.</p> <p><b>KZ:</b> Please clarify which emissions are under the control of the project participants.</p> <p><b>D:</b> Relevant corrections were provided to the PDD section B.3.</p> | Issue is closed. |
| <p><b>CAR 24.</b> Please provide the delineation of the project boundary and the gases and sources included by using a figure or flow chart.</p>  | 32 (c) | <p>Relevant corrections were provided to the PDD section B.3.</p> <p><b>KZ:</b> Please provide the figure in English.</p>   | Issue is closed. |



## DETERMINATION REPORT

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| <b>CAR 25.</b> Please provide justification for the equipment life time for the 17 years.   | 34 (b) | <p>Relevant corrections were provided to the PDD section C.2.</p> <p><b>KZ:</b> Please provide documental proof of the equipment installed lifetime with the length of 17 years.</p> <p><b>D:</b> "Note on the operational lifetime of the equipment" was provided to AIE. According to this Note and implementation schedule, operational lifetime of the curing presses will end in 2020 so the minimal lifetime of the project is 17 years.</p> | Issue is closed. |
| <b>CAR 26.</b> The starting date of the crediting period is before 2008. Please note that the crediting period for issuance ERUs may be only in between 2008 and 2012. For the period before 2008 please provide appropriate description. | 34 (d) | Relevant corrections were provided to the PDD section C.3.   | Issue is closed. |
| <b>CL 06.</b> Please clarify whether the extension is subject to the host Party approval.   | 34 (d) | Relevant corrections were provided to the PDD section C.3.   | Issue is closed. |
| <b>CAR 27.</b> Please clearly identify that JI specific approach is used in the PDD.  | 35     | Relevant corrections were provided to the PDD section D.1.   | Issue is closed. |
| <b>CAR 28.</b> Please provide full and transparent description of the monitoring plan.  | 36 (a) | Relevant corrections were provided to the PDD section D.1.   | Issue is closed. |
| <b>CL 07.</b> Please briefly indicate relevant key factors and characteristics to be monitored.   | 36 (a) | Relevant corrections were provided to the PDD section D.1.   | Issue is closed. |





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| <b>CAR 29.</b> Please note that amount of processed rubber materials is not measured but calculated value. Please correct.   | 36 (b)       | Relevant corrections were provided to the PDD section D.1.1.3.   | Issue is closed. |
| <b>CL 08.</b> Please clarify the procedures to be followed if expected data are unavailable.   | 36 (b) (iii) | Relevant corrections were provided to the PDD section D.1.   | Issue is closed. |
| <b>CAR 30.</b> Please clearly distinguish:<br>(i) Data and parameters that are not monitored throughout the crediting period, but are determined only once (and thus remain fixed throughout the crediting period), and that are available already at the stage of determination.<br>(ii) Data and parameters that are not monitored throughout the crediting period, but are determined only once (and thus remain fixed throughout the crediting period), but that are not already available at the stage of determination.<br>(iii) Data and parameters that are monitored throughout the crediting period. | 36 (d)       | Relevant corrections were provided to the PDD section D.1.   | Issue is closed. |
| <b>CL 09.</b> Please clarify whether conservative assumptions have been used.  | 36 (f) (v)   | Relevant corrections were provided to the PDD section D.1.   | Issue is closed. |
| <b>CL 10.</b> Please clarify how uncertainty was accounted.  | 36 (f) (v)   | Relevant corrections were provided to the PDD section D.1.<br><b>KZ:</b> Please correct the statement as for the uncertainty.<br><b>D:</b> Relevant corrections were provided to the PDD section D.1 | Issue is closed. |
| <b>CL 11.</b> Please clarify who is the head of monitoring team?   | 36 (j)       | Relevant corrections were provided to the PDD section D.3.   | Issue is closed. |



## DETERMINATION REPORT

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| <p><b>CAR 31.</b> Please double check input data for project electricity consumption on the main production site, project heat consumption in heavy tyres production since recalculation showed discrepancy between raw data and the one in PDD.</p> | 36 (l) | <p>No discrepancy found.</p> <p><b>KZ:</b> calculation showed for EC<sub>main site, PC</sub> for 2005 164236.835 MWh, HC<sub>heavy tyres, PC</sub> for 2009 26.726 Tcal.</p> <p><b>D:</b> The value of EC<sub>main site, PC</sub> for 2005 164236.835 MWh it is only consumption of Bilotserkivska CHP, while electricity consumption from Kyivoblenergo should be accounted as well.</p> <p>The value of HC<sub>heavy tyres, PC</sub> for 2009 26.726 Tcal it is only consumption of Bilotserkivska CHP, while electricity consumption from the own boiler house should be accounted as well.</p> | Issue is closed. |
| <p><b>CAR 32.</b> Please double check calculation of the baseline emissions since cross-checking showed the discrepancy.</p>   | 43     | <p>No discrepancy found.</p> <p><b>KZ:</b> calculation showed for BE to be 245459.86</p> <p><b>D:</b> Please see explanation above for the CAR 31.</p>   | Issue is closed. |
| <p><b>CAR 33.</b> Please indicate environmental impacts of the project (on the soil, water air etc) and relevant documentation.</p>  | 48 (a) | <p>Relevant corrections were provided to the PDD section F.2.</p>  | Issue is closed. |
| <p><b>CAR 34.</b> Please explain the value of project amount of processed rubber compounds on the main site and in heavy tyres production starting from 2012 since this data is not available yet.</p>   | 25     | <p>Production data after 2012 is provided on the basis of the plant production plans.</p> <p><b>KZ:</b> Please provide ones to the AIE.</p> <p><b>D:</b> The proof was provided to the AIE.</p>  | Issue is closed. |

