Analysis of the environmental impact Ltd." Tarkett Vinisin" Kalush

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In the thesis work considered analysis of the environmental impact Ltd."Tarkett Vinisin" described Technological processes producing parquet strips (lamellas) and friezes for parquet and made general characteristics of Kalush and Company Ltd."Tarkett Vinisin".

Keywords – Ltd. "Tarkett Vinisin" emissions, discharges, environmental impact.

I. Introduction

Ivano-Frankivsk region is located in the west of Ukraine, near the geographical center of Europe. Its territory lies in the middle latitudes, the temperate climatic zone. The presence of hazardous industrial facilities in the Ivano-Frankivsk region, which are powerful pollutants, causes a large anthropogenic load on the environment.

"Tarkett Vinisin" plant is the only manufacturer in Ukraine of high-quality tuft coating for flooring, as well as textile textured yarn for the production of tuft coating, classic Jacquard carpets and carpet products. The «Tarkett Vinisin» plant is a modern factory built with the latest imported equipment.

II. Characteristics of the technological process of production of parquet slats (lamellas) and production friezes for parquet

Production of parquet lath (lamella) is a division of production of parquet Ltd." Tarkett Vinisin ". The raw material for the production of parquet lath is a frieze for parquet.

In its properties, the frieze meets the requirements of Regulation No. RP – T – 01 and GOST 2695 "Sawn softwood". The frieze is manufactured in accordance with the requirements of technological regulations No. RP-T-01.

When processing non-planed friezes and further its rozpiltsi during the year, 1,440 tons of sawdust waste, which is compressed into briquettes and used as fuel.

In the technological process of lamella production, there are no chemical processes associated with the conversion of chemicals. The technology of lamella production is based on mechanical processes of wood processing. Emissions of harmful substances into the atmosphere.

In the process of lamella production, wood dust is released into the atmosphere in the amount of 0.0135 tons per year (0.0374 g / s). Emission hazard class – 4.

MPC – 0.5 mg / mcub. The aggregate state is a (solid suspended particles).

The discharge is carried out through a pipe 8.0 m high, 0.4 m wide. The discharge speed is 9.55 m / sec, the emission volume is 1.2 m. Cubic / sec.

For the protection of atmospheric air, air purification is provided in two chain filter-recirculation units with a productivity of 50000 m. Cubic / h each, the purification efficiency is 99.0%.

Liquid wastes and wastewater.

There are no technological liquid wastes at production. Domestic wastewater and rainwater are diverted to the existing networks of Ltd." Tarkett Vinisin ".

Solid wastes and their disposal.

Solid waste of wood is formed at the enterprise in the form of friezes, lamellas and sawdust, which is pressed into fuel briquettes, and is subsequently used as fuel.

With scheduled or unplanned production stops for repairs, as well as in other unusual situations associated with temporary or complete shutdown of production, emissions of harmful substances into the atmosphere and into water bodies are impossible.

The production of the frieze for parquet is a subdivision Ltd." Tarkett Vinisin ".

Protection of the environment: The stage of drying wood.

There is no solid waste at the drying stage. Industrial waste water is not formed.

The moisture that evaporates from the wood is dried, drained by the ventilation system of the drying chambers. Technological emissions are absent.

Water boiler house.

To provide the process of drying the wood with a heat-transfer medium, a boiler-house is provided. Two boilers with heating capacity of 1.0 MW are installed in the boiler house.

The thermal power of the boiler house is 3539 Gcal / year, the annual flow of gas 449 911 m. Cu. per year.

Emissions to the atmosphere.

Possible emissions of harmful substances into the atmospheric:

- nitrogen dioxide: 0,287 g / s; 1,8672 t / year
- carbon monoxide: 0,0422 g / sec ; 0,2747 t / year

For the removal of flue gases from boilers one chimney is provided with a height of 12 m and a diameter of 630 m.

Solid waste.

Solid waste is absent.

Sewage

There are no wastewater in the water body.

Production waste water in the amount of 0,548 m. Cubic meter / day enters the purge well and then into the wrecker, from where periodically it is taken out by special vehicles to the treatment facilities of ZAO Lukor.

Other potential sources of environmental impact.

The noise level is less than 80 dB, ultrasound, vibration, electromagnetic waves, ionizing radiation are absent.
Conclusion

The enterprise belongs to the second group of facilities according to the composition of the Documents, in which the volumes of emissions are justified, depending on the degree of the object's influence on the atmospheric air pollution. «Tarkett Vinisin» Ltd has developed and operates an environmental management system that complies with all the requirements of the Ukrainian legislation and is in compliance with the main provisions of the ISO 14001 standard. This system defines the main general objectives and principles of the company's environmental behavior and also the company's responsibility for environmental protection at all levels.

The design capacity of the factory is 4 million square meters, tuft in a year.

At the enterprise of LLC "Tarkett Vinisin" there is an integrated management system. The system of standards ISO 9001 is introduced; ISO 14001; BS OHSAS 18001.

According to the introduced standards 350 tons of solid polymer waste PVC linoleum, 25 tons of solid polymer waste PE packaging 40 tons of solid waste of cardboard packaging, 200 tons of wood waste and wooden pallets were sent to the company for processing, 500 cubic meters of liquid waste water were sent for cleaning, approval and receipt in state bodies – the Ministry of Ecology and Natural Resources of Ukraine, the Ministry of Health of permits for the formation and utilization of solid waste products, harm s Spanish maids in the atmosphere, rain, economic and technological waste, as well as the certification for safety for the environment Equipment for the production of slats.

«Tarkett Vinisin» Ltd annually schedules the amount of harmful emissions, waste water, waste and also the quantity of consumed energy resources (drinking and economic water, electricity, fuel) required for the activity of the enterprise, according to the approved technological regulations and norms. indicators and is constantly working to reduce both the amount of harmful emissions, waste water, waste and the reduction in the amount of energy consumption.

The amount of technological emissions, waste and waste, energy resources is determined by technological regulations of production and is annually agreed and approved by the department of environmental inspection and the governor of the region. The company quarterly reports on the state of environmental protection and the amounts of generated harmful substances.

The control of the enterprise in the environmental sphere is carried out by the regional department of the ecological inspection and the regional bodies of state sanitary supervision. Qualitative and quantitative composition of harmful emissions, process wastes and wastes as well as noise, vibration, dust levels, and lighting quality at workplaces are monitored by state sanitary inspectorates in accordance with technological regulations for the production of products and current legislation. Technological effluents are sent to special treatment facilities for existing communications. Technological water contaminated with latex is recycled into the process. Solid technological waste products and solid household waste are sent to a specialized waste landfill. The enterprise constantly reduces the amount of solid waste and process effluents due to their processing as secondary raw materials at other enterprises. Wastes from fuels and lubricants, thermal oils, used lamps and other substances and objects of concern to people and the environment are transferred to specialized enterprises for processing.

For all types of chemical raw materials and finished products of the enterprise there are safety certificates of Ukrainian type (for finished products – linoleum of PVC and textile covering also passports of sanitary and hygienic safety of Russia and Belarus). All raw materials and finished products are preliminarily approved and verified by the sanitary and hygienic supervision authorities of Ukraine before use in production.

All production, construction, design work (including the choice and environmental condition of the land), which are conducted at the enterprise, are agreed and controlled by the state environmental authorities, sanitary supervision, fire safety, labor protection inspection. Violations of the current legislation in the field of environmental protection, environmental accidents at the enterprise have not been since the beginning of work.

The policy of the company "Tarkett Vinisin" is devoted to the protection and preservation of the environment. It will continue to make its contributions to the preservation of our ecosystem through the adoption of responsible and transparent business decisions and activities that include the protection of the environment.

References