



***MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF UKRAINE***

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Regulation of the pollutant emissions into the air by stationary sources is carried out in accordance with Article 11 of the Law of Ukraine “On the Protection of Atmospheric Air” with the aim of ensuring environmental safety, creating a favorable living environment, and preventing harmful effects on the environment.

Emissions of pollutants into the air by stationary sources can be carried out after obtaining permission.

Permits for emissions of pollutants into the air are issued subject to: not exceeding, during the period of their validity, the established environmental safety standards for atmospheric air; not exceeding standards for permissible emissions of pollutants by stationary sources; Compliance with the requirements of technological processes in terms of limiting emissions of pollutants.



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- The **first** group includes objects that are registered with the state and have production facilities or technological equipment, on which environmentally friendly technologies and management methods should be introduced. (Ministry of Natural Resources, for a period of 7 years)
- The **second** group includes objects that are registered with the state and do not have production facilities or technological equipment, on which environmentally friendly technologies and management methods should be introduced. (Regional state administrations for a period of 10 years)
- The **third** group includes objects that do not belong to the first and second groups.



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Annex 3 to the ordinance of the Ministry of Natural Resources dated 09.03.2006 No. 108 "On approval of the Instruction on the general requirements for the preparation of documents that justify the amount of emissions, in order to obtain a permit for the emission of pollutants into the air from stationary sources for enterprises, institutions, organizations and individual entrepreneurs "

LIST OF INDUSTRIES AND TECHNOLOGICAL EQUIPMENT SUBJECT TO IMPLEMENTATION OF THE BEST AVAILABLE TECHNOLOGIES AND MANAGEMENT TECHNIQUES

1. Energy sector and processing industry;

- thermal power plants, the rated thermal power of which exceeds 50 MW;
- oil refining and gas processing equipment;
- coke ovens;
- equipment (installations) for gasification and liquefaction of coal;
- boiler room;
- equipment (installation) for grinding coal and installations for the production of coal-chemical products and solid smokeless fuel.



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2. Production and processing of metals:

equipment (installations) for roasting and agglomeration of metal ore (including sulfide ore) equipment (installations) for the production of pig iron and steel (primary and secondary smelting), including continuous casting, the productivity of which exceeds 2.5 tons per hour; equipment (installation) for processing ferrous metals:

- a) the state of hot rolling, the capacity of which exceeds 20 tons of steel per hour;
- b) forging hammers, the energy of which exceeds 50 kJ per hammer, and the thermal power is 20 MW;
- c) application of protective sprayed metal coatings with the supply of crude steel, which exceeds 2 tons per hour;
- d) foundries for casting ferrous metals, whose production capacity exceeds 20 tons per day;
- e) equipment (installation) for the production of non-ferrous metals from ore, concentrates or secondary raw materials using metallurgical, chemical and electrolytic processes;
- f) equipment (installations) for smelting, including alloying non-ferrous metals, including recycled materials (refining, casting), with a melting capacity exceeding 4 tons per day for lead and cadmium or 20 tons per day for all other metals;
- g) equipment (installations) for surface treatment of metals and plastic materials using electrolytic or chemical processes for which the volume of the bathtubs for processing is more than 30 cubic meters.



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3. Mineral Resource Processing Industry:

- underground mining and related operations, open mining of minerals from the surface of the site exceeding 25 hectares;
- equipment (installations) for the production of cement clinker in rotary kilns, the production capacity of which exceeds 500 tons per day;
- equipment (installations) for the production of lime in rotary kilns, the production capacity of which exceeds 50 tons per day, or in other furnaces, the production capacity of which exceeds 50 tons per day;
- equipment (installation) for the production of asbestos and the manufacture of products containing asbestos;
- equipment (installations) for the manufacture of glass, including fiberglass, with a melting capacity exceeding 20 tons per day;
- equipment (installation) for melting mineral substances, including the production of mineral fibers, with a melting capacity exceeding 20 tons per day;
- equipment (installations) for the production of ceramic products by firing, in particular for the production of roof tiles, bricks, refractory bricks, ceramic tiles, stone ceramics or porcelain products, in which (of which) the production capacity exceeds 75 tons per day and / or the capacity of firing furnaces exceeds 4 cubic meters. m and the density of the charge on the kiln exceeds 300 kg / m³



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4. Chemical Industry:

equipment (installations) for the production of basic organic chemicals:

- a) equipment (installations) for the production of simple hydrocarbons (linear and cyclic, saturated and unsaturated, aliphatic and aromatic)
- b) equipment (installation) for the production of hydrocarbons containing oxygen (alcohols, aldehydes, ketones, carboxylic acids, esters, acetates, ethers, peroxides, epoxies)
- c) equipment (installation) for the production of hydrocarbons containing sulfur;
- d) equipment (installation) for the production of hydrocarbons containing nitrogen (amines, amides, nitrogen compounds, nitro compounds and nitrate compounds, nitriles, cyanates, isocyanates)
- e) equipment (installation) for the production of hydrocarbons containing phosphorus;
- f) equipment (installations) for the production of hydrocarbons containing halogens;
- g) equipment (installation) for the production of metal compounds;
- g) equipment (installation) for the production of basic plastic materials (polymers, synthetic fibers and cellulose-based fibers);
- h) equipment (installation) for the production of synthetic rubber;
- i) equipment (installation) for the production of paints and pigments
- g) equipment (installations) for the production of surfactants;



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- chemical equipment (installations) for the production of basic inorganic chemical products:
- a) equipment (installations) for the production of gases (ammonia, chlorine and hydrogen chloride, fluorine or hydrogen fluoride, carbon oxides, sulfur compounds, nitrogen oxides, hydrogen, sulfur dioxide, carbon dioxide)
 - b) equipment (installation) for the production of acids (chromic acid, hydrofluoric acid, phosphoric acid, nitric acid, hydrochloric acid, sulfuric acid, oleum, sulfurous acid)
 - c) equipment (installation) for the production of ammonium hydroxide, potassium hydroxide, sodium hydroxide
 - d) equipment (installation) for the production of calcium carbide, silicon, silicon carbide;
 - e) equipment (installation) for the production of ammonium chloride, potassium chloride, potassium carbonate, sodium carbonate, perborate, silver nitrate;
 - f) equipment (installations) for the production of phosphorus, nitrogen and potash mineral fertilizers (Simple and complex fertilizers);
 - g) equipment (installation) for the production of basic products for crop production and biocides;



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5. Production and processing of wood:

equipment (plant) for the production of cellulose from wood or similar fibrous materials;
equipment (installations) for the production of paper and cardboard and other wood products (cardboard, wood fiber and plywood) with a production capacity exceeding 20 tons per day;

equipment (installation) for processing wood and wood products with chemicals.

6. Other types of activity:

equipment (installations) for processing substances, objects and products using organic solvents, in particular for dressing, printing, coating, degreasing, waterproofing, priming, painting, cleaning or impregnating, with a production capacity of more than 150 kg per hour or 200 tons per year;

equipment (installation) for tanning leather and fur, on which the processing volume exceeds 12 tons of processed products per day;

equipment (installations) for the production of carbon (from coke) or electrographite by burning and graphitization.



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7. Waste treatment and disposal:

equipment (installation) for incineration, pyrolysis, recovery, chemical treatment or disposal of hazardous waste with a capacity of more than 10 tons per day;

equipment (installation) for the incineration of municipal waste with a capacity exceeding 3 tons per hour;

equipment (installation) for the disposal of non-hazardous waste with a capacity exceeding 50 tons per day.



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State Registration

- The Law of Ukraine “On Atmospheric Air Protection”, article 31 “State Accounting in the Field of Atmospheric Air Protection”
- Resolution of the Cabinet of Ministers of Ukraine dated December 13, 2001 No. 1655 “On approval of the procedure for maintaining state accounting in the field of atmospheric air protection”
- Order of the Ministry of Natural Resources of Ukraine dated 10.05.2002 No. 177 “On approval of the Instructions on the procedure and criteria for taking objects to the state register that have or may have a harmful effect on human health and the state of atmospheric air, types and volumes of pollutants that are emitted into the atmosphere”

The state registration is conducted with the aim of:

ensuring state control in the field of atmospheric air protection and forecasting changes in its status;

development of the state, regional, local environmental and health programs, implementation of other measures to reduce the degree of air pollution;

regulation of pollutant emissions into the air from stationary and mobile sources, the degree of influence on physical and biological parameters.



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Decree of Ukraine dated November 29, 2001 No. 1598 “On approval of the list of the most common and hazardous pollutants whose emissions into the air are subject to regulation”

The list of the most common and hazardous pollutants whose emissions into the air are subject to regulation

Most common pollutants

Nitrogen oxide
Benzopyrene
Sulfur dioxide and other compounds
Ozon
Suspended particles
(microparticles and fibers)
Lead and compounds
Formaldehyde

Hazardous substances

Metals
Carbon oxide
Organic amines
VOS
POPs
Cl, Br and compounds
F and compounds
Cyanide
Freon
Arsenic and compounds



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Emission Limit Values

-Decree of the Cabinet of Ministers of Ukraine dated December 28, 2001 No. 1780 “On approving the procedure for developing and approving standards for maximum permissible emissions of pollutants from stationary sources”

- Order of the Ministry of Natural Resources of Ukraine dated June 27, 2006 No. 309 “On approval of maximum permissible emissions of pollutants from stationary sources”

The standards for maximum permissible emissions of pollutants restrict the mass concentration of pollutants in organized emissions of stationary sources (mg / cubic meter).

The order of the Ministry of Nature Protection dated as of August 16, 2004 No. 317, stipulates the List of equipment types for which standards for the maximum permissible emissions of pollutants from stationary sources are being developed.

This List is adapted to Annex 1 of Directive 2010/75 / EC on industrial emissions (integrated pollution prevention and control).



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For the equipment included on the List, technological standards are being developed:

- Technological standards for the permissible emissions restrict the mass concentration of pollutants in gases (mg / m³), which are diverted from certain types of equipment, or facilities at the outlet from the equipment. They are divided into the following categories:
 - current technological standards - for existing specific types of equipment, facilities at enterprise level with the best existing production technology, similar to the technological processes;
 - future technological standards - for new and those that are being designed, built or modernized, of individual types of equipment, facilities, taking into account advanced domestic and world achievements in the relevant field.
- Up to now, the technological standards have been approved for 12 types of industries, which indicate the emissions limit values and the timing to reach them.



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Emission Permits Obtaining Procedure

Decree issued by the Cabinet of Ministers of Ukraine dated March 13, 2002 No. 302 “On approval of the conduct and payment of works related to the issuance of permits for emissions of pollutants into the air from stationary sources, registration of enterprises, institutions, organizations and individual entrepreneurs who received such permits”;

- permission is issued upon approval of the State Service of Ukraine on food safety and consumer protection;
- the business entity places the announcement in the local media about the intention to obtain the permit indicating the address of the local state administration, to which comments of public organizations and individual citizens can be addressed;
- local state administrations consider the comments of public organizations, and if necessary, organize a public discussion.



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International Obligations

- Ukraine has ratified the Association Agreement between the Ukraine and the European Union and approved the Action Plan for the implementation of the Agreement, in particular, the implementation plan for Directive 2010/75 / EU on industrial emissions (comprehensive pollution prevention and control) (revised);
- Draft concept for the implementation of state policy in the field of industrial pollution;
- Development and approval of the BAT database for the list of activity categories o (technological equipment);
- Draft Law on Integrated Prevention and Control of Industrial Pollution is scheduled for 2019;
- the National Plan for Reducing Emissions in the Energy Sector until 2034 is being implemented, including obligations to gradually introduce emission standards that meet the requirements of the Gothenburg Protocol for enterprises qualified for it;



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- The Law of Ukraine dated as of February 28, 2019 No. 2697-VIII approved the **Basic Provisions (Strategy)** of Ukraine's environmental policy for the period up to 2030 which will be enforced from 01.01.2020
- Introducing the ecosystem approach into sectoral policies and improving the system of integrated environmental management
- Implementation of the integrated permits for the regulation of environmental pollution in accordance with Directive 2010/75 / EC on industrial pollution (integrated pollution prevention and control) (revised version)



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Thank you for your attention