
THE ENVIRONMENTAL PROTECTION AND POSSIBILITIES OF INTRODUCING THE BEST AVAILABLE TECHNOLOGIES AT COKE AND CHEMICAL ENTERPRISES OF UKRAINE TAKING INTO ACCOUNT THE DEVELOPED SITUATION

© A.L. Borisenko, PhD in technical sciences, A.S. Malish, PhD in technical sciences (SE "UKHIN")

The article discusses regulatory issues of environmental protection at coke plants. A list of current regulatory documents of the European and domestic level is given, they determine the strategic directions of environmental activity in coke and chemical plants. In particular, some current and promising technological standards for permissible pollutant emissions are given, which are established taking into account economic feasibility, the level of technological progress, the technical condition of plants and equipment and should be put into effect since 01.01.2021.

The list of environmental protection measures carried out at enterprises to ensure current and future technological standards for pollutant emissions is provided, in particular, the introduction of stationary installations for dust-free coke delivery, smokeless charge loading using steam or hydro injection, which ensures a 90- reduction in emissions when loading a coal charge 95%, and many others. A comparison of the best available technologies for coke ovens is given in the Directory on the best available technologies for ferrous metallurgy with those introduced at coke oven enterprises in Ukraine. The problems associated with the realization of the possibility of achieving promising technological standards for emissions taking into account the requirements of Directive 2010/75 / EC in the unstable economic situation in Ukraine and the world are highlighted. It is proved that the achievement of promising standards for emissions from coke ovens (emissions from chimneys) for such substances as nitrogen oxides (nitrogen oxide and dioxide in terms of nitrogen dioxide), carbon monoxide and substances in the form of suspended solids is not possible without reconstruction of coke oven batteries or construction of new ones using the best available technologies and environmental measures.

Keywords: environment, pollutant emissions, environmental measures, best available technologies, technological standards.

Author for correspondence: **A.L. Borisenko**, zd@ukhin.org.ua