
THE OVEN FUND STATE ANALYSIS OF THE COKE-CHEMICAL PRODUCTIONS IN UKRAINE AS ON THE DATE 01.01.2021

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The oven fund state analysis has been carried out for coke batteries of eight coke-chemical enterprises and industries located in the controlled territory of Ukraine. As on the date 01.01.2021, the operating coke oven batteries number was about 83,3 % of the total. The average service life of operating batteries was 30 years, and only 33,3 % of operating batteries corresponded to standard service life by project - 20 years. Over the past 10 years, the operating batteries number has decreased by 5 units, and their average service life has increased by 4,4 years, which indicates a deterioration in the oven fund condition. Obtained data on batteries average service life indicate a significant risk of industrial accidents, as well as the need to inspect and assess technical condition of coke oven batteries with a service life more than 20 years with followed reconstruction or a new construction. The ratio of total capacity of operating coke oven batteries (16891 thousand tons/year) to capacity of batteries with a service life of up to 20 years (5100 thousand tons/year) indicates issue relevance of domestic coke-chemical enterprises further ability to fully meet the demand of the Ukrainian market for coke. Taking into account the consequences of Russian Federation armed aggression against Ukraine which broke out on 24.02.2022, at present all coke-chemical plants in the country need a thorough inspection. The relevance and practical significance of such surveys also lies in the need to assess the losses caused to Ukrainian industry by armed aggression of the Russian Federation. However, such inspection can only be performed after appropriate access to the concrete industrial objects. The resumption of the coke production is the only way to refuse the import of coke.

Key words: analysis, oven fund, coke battery, average service life, total capacity.

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