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**RESEARCH WORKS AND DEVELOPMENTS OF SE “UKHIN” IN THE FIELD OF PROCESSING OF CHEMICAL COKING PRODUCTS IN MODERN CONDITIONS**

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*Main results are presented for the development of the UKHIN State Enterprise on improving the industrial technology for recovery and processing chemical coking products. A review of the most significant studies relating to the primary cooling and condensate separation, benzene recovery, hydrogen sulphide recovery processes, crude benzene and coal tar processing was performed. The relevance of work to improve technological regimes in conditions of changing the coking coal sources and the corresponding coking conditions is shown. The demand for studies on the use of promising technologies for burning spent acid using the Haldor Topsoe technology, ammonia desulfurization treatment, and hydrotreating crude benzene using extractive distillation is shown. It is stated that at present, Ukrainian enterprises are modernizing on the scale of individual devices or narrow stages of the technological process. The task of SE “UKHIN” in the current conditions is to carry out scientific and technical support at the stages of launching and mastering new plants, to select the most suitable technologies in the current conditions at the enterprise, to fulfill technological tasks for designing, evaluate technical and commercial proposals, and calculate physical and chemical parameters of technological environments for filling out questionnaires of equipment suppliers. The research is aimed at developing measures to maintain operating modes and equipment of coke-chemical enterprises in working condition, to improve product quality, and to maximize the benefits of modern machines. Due attention is paid to determining the corrosion resistance of materials, especially alloy steels, which allow the equipment to be used for a long time. To this end, monitoring of the corrosiveness of technological environments and the selection of appropriate and available on the market materials for maintenance and repair are carried out.*

Keywords: primary cooling, tar condensate washing liquid, tar de-ashing unit, high-intensity packing, benzene hydrocarbon products, hydrotreating, electrode pitch, needle pitch coke.

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