OR-22

IMPLEMENTATION OF A HIGH-EFFICIENT ELEMENTARY HEATER IN THE CIRCUIT OF AN EXISTING EVAPORATOR WITH THE PURPOSE OF SAVING HEATING STEAM

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Abstract. The paper gives a brief description of the method for producing alumina (Al_2O_3) by the Bayer method.[1]

The design of a shell-and-tube and high-efficiency element heater is considered. The reasons for the formation of scale on the heat exchange surface are named.

The diagrams of the operating evaporator unit before and after the introduction of a highly efficient element heater are presented.

The results of pilot tests of the existing evaporator before and after the introduction of a highly efficient element heater are presented.

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