

*Course: System analysis of complicated chemical-technological complexes*

*Coursework:*

**“The system analysis of the process of dehydration and granulation of ammonium sulfate”**

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**Summary**

In this coursework we study the process of granulation and dehydration of ammonium sulfate. The flowsheet of ammonium sulfate in fluidized bed was examined. Since the circuit is closed, the structural analysis was carried out. This flowsheet was simulated in the ChemCad program. As a result of the simulation of flowsheet the material and energy balances were received. Process productivity is 220 kg/hour. This coursework relates to systems analysis and chemical engineering: the studying the process of ammonium sulfate dehydration and granulation.