

Problem 4	<b>Utilization of waste-free gas purification technology</b>
The essence of the problem	At purification of gas from hydrogen sulfide the method of alkaline purification is used. At that there are big expenses for maintenance of the expensive equipment designed for alkaline purification, expenses for energy resources, chemical reagents and utilization of spent alkali. NaOH alkali is used, which requires the use of expensive equipment. Alkali consumption was up to 600 liters per hour at maximum
Technological parameters	There is a need for a technology to reduce the consumption of lye to a minimum value (less than 20 liters per hour) and in the long term to bring to a complete rejection of the use of lye.
Scale of the problem	Significant capital investments are required for alkali purchase, plant maintenance, environmental problems. Scale of the two fields.