

## Abstract

The system of hydrocarbon equipments maintenance includes a group of activities and organisational measures and techniques. The principal equipment that is present in the hydrocarbon domain consists of three parts: mechanical, electric and electronic and we are interested in the mechanical part which is related to the problems of planning of the repairing of the equipments constructive elements. This research paper is devoted to the development of an approach to the problem of estimation or evaluation of consumption volumes and of pieces repairing, and equipments in taking into consideration the possibilities of the repeated uses of restored pieces and of samples heterogeneity of identical equipments at the time of repairing. We give at the end an application of the viewed approach to the case of installations of gas turbine.