Full Paper	Thematic Section: Engineering Equipment.
Registration Code of Publication: 11-28-20-84	Subsection: Engineering Simulation.
Publication is available for discussion in the framework of the on-line Internet	t conference "Butlerov readings".

http://butlerov.com/readings/ Contributed: November 22, 2011

Upgrading vacuum systems of black oil rectification plant

© Eduard V. Osipov, *Sergey I. Ponicarov, and Eduard S. Telyaykov*

Mechanical Engineering for Chemical Industry. Kazan National Research Technological University.

K. Marx St., 68. Kazan, 420015. Tatarstan Republic. Russia.

Phone: +7 (843) 2-314-241. E-mail: mahp_kstu@mail.ru

Keywords: vacuum system, the vacuum rectification of black oil, liquid ring vacuum pump.

Abstract

The developed model worked out in *ChemCad* represents a complex of chemical engineering system (installation for vacuum distillation), which allows to take into account characteristics of the elements of the same hierarchical level, of which it consists. Numerical experiments on the models of individual elements obtained in the software package were conducted to determine their characteristics in order to obtain integrative characteristics of the system.

^{*}Supervising author; *Corresponding author