

CUSTOMIZED DESIGNS AND STEAM GENERATOR PERFORMANCE

Nicușor Vatachi

"Dunărea de Jos" University of Galați

ABSTRACT

Several variables affect the plant engineers plan their operation better. This paper discusses the effects of such variables as excess air, fuel type, exit gas temperature, load, and emissions on generator design and operation. It also discusses some of the potential benefits of customized steam generators over standard, prepackaged designs, which often compromise on overall performance. The focus of the paper is limited to gaseous and oil fuels.

REFERENCES

- [1]. Ganapathy, V., „*Waste Heat Boiler Deskbook*”, Fairmont Press, Atlanta, GA, 1991;
- [2]. Kiang, Y.-H., „*Predicting Dewpoints of Acid Gases*”, Chem. Eng. 88(3), p.127, (Feb.1991);
- [3]. Steam.Its Generation and Use .Babcock & Wilcox, New York, 1975;
- [4]. Vatachi. Nicușor., “*The experimental determination of steam boilers flue gas dew temperature*”, 8-th International Expert Meeting Power Eng. 1999, Maribor, Slovenia, Proceedings, pp.191-201;
- [5]. Verhoff, F H., and Banchemo, J. T, "*Predicting Dew Points of Flue Gases*," Chem. Eng. Prog., August, 1974.