

VPLYV PODMIENOK MANUÁLNEJ REGULÁCIE KOTLA SPALUJÚCEHO DREVO NA TVORBU EMISIÍ

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ABSTRACT

Ladomerský J., Hroncová E. & Vargovčík V.: **Emissions' production dependency on conditions of the wood combustor manual operating**

Defining the optimal conditions of combustion process with the lowest emissions reached is an original task for any type of wood combustor that can be operated manually. Testing emissions of the wood combustor with a skew grate of type NKM 1160-V in operating modes were realized. The results of the research in the field of the impact of primary and secondary burning air manual regulation, same with a regulating flap in the combustor burn line on CO, NO_x, and total organic carbon are presented in the paper.

In all investigated modes of the combustor operation, the concentration of nitrogen oxides in the whole cycle of fuel combustion was without marked deviations and far lower than the emission limit of 650 mg.m⁻³. Carbon oxide concentration and total organic carbon are extremely variable for some