Extended abstract

ECONOMICALLY OPTIMAL CONTROL OF REDUNDANT AIR PRESSURE TO COMBAT HARMFUL THE MICROORGANISMS OF THE SOIL-MECHANISMS IN THE AIR OF POULTRY HOUSES

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In this article the author discusses the new features in information and automation technologies in poultry houses. Production is carried out in automatic mode according to technological or economic criteria.

The purpose of work is development of technical solutions to control excessive pressure of internal air space of the house is still not widely used in agriculture areas of agricultural automation control of technological processes in poultry farming on commercial basis (economic criterion).

As a result, the mode of cultivation and keeping livestock set is selected is economically the best value of power ventilation, the stimulation of the production facilities, which ensures the least at this point in time the amount of costs from the estimated in-Teri the cost of the loss of poultry products during the disinfection of air environment due to its bacteriological and microbial saragano-making and operational energy costs for the disinfection PU-the increase of excess air pressure.

To account for the energetics of the process of disinfection in the use of nitochnogo pressure of the internal air of the room, you should also create a similar additional dependencies in electricity costs from power ventilation. The dependence of the cost of electricity for proper ventilation disinfection Lee stresses will increase with increasing ventilation capacity. If you need to save energy for disinfection by excessive pressure should be obtained cost functions be folded into the range of variation of artificially generated signal air vent pressure and to find the minimum of this sum, or the objective function of the

optimization of the decontamination process. Produced accurate cost-optimal and energy saving (rational rashodov of technogenic energy) decontamination of the air environment a productive space.

The proposed technical solutions are vividly expressed by an extremely broad practical possibilities of their application implementation. Manufacturer of poultry products can always choose the time when the resulting surplus electricity to go to her pereras-stroke, but to get higher productivity of animals and birds with the direct cultivation of livestock in the absence of microbiologists-cal hazards in the air of industrial premises. Significantly expand the functional and technical possibilities of the practical application of new technical solutions ventilation-disinfection by air pressure of a premise.