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There are many ways to protect gas turbine engines from foreign objects ingress from the surface of the airfield, but up to now the problem remains relevant. Experimental studies suppose performing model studies of the dependence of the vortex formation intensity to the intake units on the height of their location, and evaluation of the technique of vortex intensity reduction through the retractable panel application.

The novelty of the study consists in the presence of the cutting-off aerodynamic surface, representing the onboard protective device in the form of retractable panel under the lower edge of the air intake channel, at the inlet of the air intake. Physical essence of the measures being developed lies in selection of the retractable panel shape and location of the.

To obtain reliable results of experimental studies, the requirements for selection of assumptions and boundary conditions, compliance with similarity and experimental results processing were fulfilled.

Static pressure receivers were installed into the flow path of air intake channel at a distance of  $5D_{sq}$  from the inlet plane. It allowed the flow speed measuring in inlet unit channel.

At the first stage, the vortex formation visualization was being performed. The media interface was being filled by the water together with the coloring liquid.

The media interface was filled with water together with the coloring liquid. Vortex cords occurred on the surface and their characteristic states were determined. The geometry of the inlet unit model was being changed by the panel extension from the lower rim of the inlet unit by a certain length  $\bar{\lambda}$ . By consistently changing the height  $\bar{H}$  and the length of the panel extension  $\bar{\lambda}$ , the development of vortex flows was recorded with by photo and a video cameras.

Experimental studies on obtaining a quantitative picture of the flow in the form of  $V_T = f(\bar{H}, \bar{L}, \bar{\lambda})$  and  $V_{T,max} = f(\bar{H}, \bar{\lambda})$  were performed similarly to the above said. The sensing element of the TTM2 thermo-anemometer was moving at a certain height of  $h$  from the media interface along the midline of the inlet unit. It was measuring the speed  $V_G$ . This speed was measured at the intervals of  $\bar{L} = 0,24$  length.

The comparative analysis of the proposed protection method of is difficult and can be performed only indirectly according changing the vortex formation intensity depending on the height of the air intake model.

The following conclusions were drawn as the result of the study:

- While advancing at each fixed height  $H$ , the panel reduces by half the speed values  $V_G$  under the inlet unit;

- With the height of  $H$  increase, the required panel protraction  $\bar{\lambda}$  for preventing the foreign objects ingress into the air inlet channel becomes smaller.



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