

NOISE REDUCTION OF SNOW-PLOUGH

© 2009 A. A. Igolkin¹, A. N. Kruchkov², L. V. Rodionov², S. V. Efanov³

¹Samara state aerospace university

²Institute of acoustic of machine

³JSC Samara design mechanical engineering bureau

The report deal with possibility of installation of the aviation engine on the snow-plough. Acoustic characteristics of a cabin of the operator are investigated. Developed constructions to noise reduction of snow-plough.

Noise, aviation engine, snow-plough

Igolkin Alexander Alexseevich, Candidate of Engineering Science, senior lecturer of Department “Automatic systems of power plant” of Samara State Aerospace University. E-mail: igolkin@pochta.ru. Area of research: pneumatic systems and vibroacoustic.

Kruchkov Alexander Nikolaevich, doctor of the technical science, professor of Department “Automatic systems of power plant” of Samara State Aerospace University. E-mail: kan@ssau.ru. Area of research: calculation and designing of correcting devices for pneumo- and hydrosystems, vibroacoustic.

Rodionov Leonid Valeryevich, Candidate of Engineering Science, senior lecturer of Department “Automatic systems of power plant” of Samara State Aerospace University. E-mail: rl63@bk.ru. Area of research: hydrodynamics and vibroacoustic.

Efanov Sergey Vladimirovich, the leading designer of Samara design mechanical engineering bureau. E-mail: scbm@saminfo.ru. Area of research: aviation engines.

References

1. GOST 23426-79 Noise. Methods of measurement of sound insulation by operators shelters or remote control cabins in industrial buildings – Entered 1978-12-29. – M.: Standards Publishing House, 1978. – 8 p. [In Russian]

2. SN 2.2.4/2.1.8.562-96 «Noise on workplaces, in premises of inhabited, public buildings and in housing estate territory» –

Entered 1996-10-31. – M.: Standards Publishing House, 1996. – 8 p. [In Russian]

3. Technical acoustics of transport cars: Directory / L.G.Balishansky, L.F.Drozdova, N.I.Ivanov, etc.; Under the editorship of N.I.Ivanov – SPb.: Politehnika, 1992. – 365 p. [In Russian]

4. SNiP 23-03-2003 Sound Protection – Entered 2003-06-30. – M.: Standards Publishing House, 2003. – 39 p.