

CYCLE AIR HEATING SYSTEM OF GAS PUMPING UNIT NEVA- 25NK

© 2009 D. G. Fedorchenko¹, A. V. Fedosov², Yu. I. Klimnyuk¹, V. I. Tsibisov²

¹Scientific-technical Complex named after N.D. Kusnetsov

²JSC Motorostroitel

An ice protection system for gas pumping unit Neva-25NK with NK-36ST engine is developed. The results of full-scale test are presented providing validation of the required parameters.

Cycle air heating system, gas pumping, ice protection system

Fedorchenko Dmitry Gennadyevich, candidate of technical science, general designer of Scientific-technical Complex named after N.D. Kusnetsov. Phone: (846) 998-59-00. E-mail: sntk@samtel.ru. Area of research: Dynamic and Strength, Aircraft Engines Design and the Power Stations.

Fedosov Alexandr Viktorovich, chief designer of Special Design Bureau on Gas Pumping unit & Power Stations, JSC Motorostroitel. Samara, Phone: (846) 992-68-68. E-mail: scb@motor-s.ru. Area of research: Power Stations.

Klimniuk Yuriy Ivanovich, head of section of Scientific-technical Complex named after N.D. Kusnetsov, Samara. Phone: (846) 998-59-00. E-mail: sntk@samtel.ru. Area of research: thermodynamic.

Tsibisov Vladimir Ilyich, head section of Special Design Bureau on Gas Pumping unit & Power Stations, JSC Motorostroitel. Samara. Phone: (846) 992-68-68. E-mail: scb@motor-s.ru. Area of research: Power Stations.

References

1. Teslenko A.I., Icing of the gas turbine aviation engines. Department of defense of the USSR.

2. Patent of RF №2095601, "Gas turbine setting with anti-icing device".

3. Gritsenko E.A., Klimnuk Yu.I., Stepanenko O.A. The test results of highly effect

tive anti-icing systems for the GPU C-16 NK-38 at the compressor station "Tolyattinskaya". «Gas turbine technologies». № 4, 2002.

4. Budusov V., Kobelev A., Tokranov A., The system of warming up the cyclic air in the series "Ural" GPU. «Gas turbine technologies». № 3(13), 2001.