CALS-technologies-based methods of quality control of electronic model of machine building products

D.L. Golovin¹, K.V. Zhilich^{1, 2}, O.B. Paschenko^{3,4} ¹ Moscow Aviation Institute, Moscow, 125993, Russia ²Experimental Design Bureau PJSC "Tupolev", Moscow 105005, Russia ³PJSC RAC "MiG", Moscow 125284, Russia ⁴Bauman Moscow State Technical University, Moscow 105005, Russia

Issues of CALS-technologies adaptation on up-to-date enterprise were considered. Issues of quality monitoring of mechanical product electronic model were analyzed. Methodology of computer-aided testing by means of Siemens NX CAD system and Teamcenter PDM system was suggested.

Keywords: CALS-technologies, quality monitoring of electronic model, Siemens NX CAD system, Teamcenter PDM system.

Golovin D.L. (b. 1945) graduated from Moscow Aviation Institute in 1968. Ph.D., Assoc. Professor of Moscow Aviation Institute. Author of 50 publications in information technology and automated engineering. e-mail: dlgolovin@bk.ru

Zhilich K.V. (b. 1988) graduated from Moscow Aviation Institute in 2010. Designing Engineer of Experimental Design Bureau PJSC "Tupolev", postgraduate of Moscow Aviation Institute. e-mail: kzhilich@mail.ru

Paschenko O.B. (b. 1957) graduated from Moscow Aviation Institute in 1983. Ph.D., Assoc. Professor of the Software and Information Technologies of Bauman Moscow State Technical University, Leading Engineer of Design Bureau of Engineering Centre PJSC RAC «MiG».Author of 19 publications in information technology and automated engineering. e-mail: alexandoleg@post.ru