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United Instrument Corporation

Press-release
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UIC Creates Communication System for Coast Guard Vessels

Control Systems Holding Company, which is a part of the United Instrument Corporation (UIC), provided the Coast Guard Institute of the FSB of Russia with the prototypes of the new computer-aided ship communication system for training officers and contract soldiers, as noted by the press service of the company.

"The development of the automated ship communication system was carried out by our Neptune Scientific Research Institute," said the General Director of the United Instrument Corporation Alexander Yakunin. The FSB Coast Guard Institute was provided with three prototypes: for border patrol ships, border patrol boats and boats for government marine inspection. These devices will serve as a training tool for signal operators. As part of this event, Neptune specialists will also carry out specialized training of teachers on the subject of operating skills."

In the past, the Coast Guard ships utilized the automated Typhoon and Buran systems, developed on behalf of the Ministry of Defense. The new system is designed specifically for the Coast Guard, taking into account its particular operational tasks.

"These systems were created by SRI Neptune in 2011-2013 within the framework of the developmental work commissioned by the FSB of Russia," said the Acting General Director of Control Systems, JCS, Vladimir Muravnik. "They fully comply with all current requirements for such equipment. The systems are designed based on the latest networking technologies, they have an open architecture and are built in a modular fashion."

The new communication system was created with the help of the most modern achievements, ideas and solutions. The transponder equipment uses digital technology programmable radio (SDR), which enables the basic parameters of the device to be determined by the software, and not the hardware configuration. This also enables operators to perform a significant part of the digital signal processing on a regular personal computer, as well as serve a large number of radio protocols. This approach greatly improves communication, as well as simplifies the design and reduces the construction cost of the device.

As of today, the automated shipborne communication system has no counterparts in Russia. SRI Neptune is currently preparing for commercial manufacture of the system. It is planned that the system will be installed on all mobile and stationary objects used in border service that are currently being designed or built: ships, boats and shore-based facilities.

Integrated (Holding) Company Control Systems was established in 2010 in order to meet the needs of the State and the Armed Forces of the Russian Federation for modern systems, complexes and

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management facilities. Since April 2014, the Holding Company has been a part of the United Instrument Corporation and Rostec State Corporation. The main specialization of the company is the creation of automated control systems, communication facilities and systems, and the development of modern means of intelligence and IT-technologies. The Holding includes 15 companies, which employ a total of over 10 thousand people. Total sales of the holding for 2013 amounted to more than 17 billion rubles.

United Instrument Corporation (MIC) is a Russian State Corporation, established in 2014 as part of Rostec State Corporation with aim to organize high-tech production of competitive products in the field of systems and means of communication, automated control systems, electronic warfare and robotic systems for the Armed Forces of the Russian Federation and other special organizations, as well as the competitive production of civilian and dual-use goods. The structure of the corporation consists of Vega Radio Engineering Corporation, Concern Sozvezdie, Control Systems integrated structure, and the Central Research Institute of Economics, Informatics and Control Systems. The Corporation unites 61 companies and a research organization of the radio-electronic industry in Russia, employing a total of over 40,000 people.

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