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Modernization of the Management and Control System for the Cold Neutron Moderator at the Fast Pulsed Reactor

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The management and control system of the cold neutron moderator allows the engineering staff to monitor, in the process of its operation, the main parameters of the moderator, including the gas blower rotation speed, the consumption and temperature of helium, the vacuum in the jacket, and movement of pellets in the transport pipe. Today, complex upgrading of the cold neutron moderator at the fast pulsed reactor "IBR-2M" is underway. The paper presents the current version of the structure of the management and control system for the cold moderator. Interface convertors are used to connect the management and control equipment of the cold moderator to the computer. The main interface of the data acquisition and control system of the executive devices is RS-485. Specialized software has been created to operate the system of management and control of the cold neutron moderator.

Primary author: Mr ALTYNOV, Alexey (JINR)

Co-authors: Mr SIROTIN, Alexandr (JINR); Mr BULAVIN, Maxim (JINR)

Presenter: Mr ALTYNOV, Alexey (JINR)

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