

LASER DEVICE LUCH CONTROL SYSTEM

I. Mozin, D.V.Efremov - Scientific Research Inst. Of Electrophysical Apparatus - Russian Federation; V. Goncharenko, D.V.Efremov - Scientific Research Inst. Of Electrophysical Apparatus - Russian Federation; V. Kofman, D.V.Efremov - Scientific Research Inst. Of Electrophysical Apparatus - Russian Federation; V. Shelechov, D.V.Efremov - Scientific Research Inst. Of Electrophysical Apparatus - Russian Federation; V. Murugov, The Scientific Research Institute Of Experimental Physics - Arzamas - Russian Federation

The successes achieved in nuclear laser fusion research (NOVA, USA and ISKRA-5, RUSSIA) allowed to start development of new laser facility-LUCH. In control system design particular attention should be paid to Power system to provide: remote and local control of capacitance storage using central and technological control panels, automatic charging of capacitors banks, high-speed electronic protection, diagnostics of all technological system conditions, forecasting emergency conditions, and formation of control commands in extreme situations and so on. The hardware's three level architecture fits with our needs of distributed control. Standardised and industrial equipment has been used where ever possible.