A.A. Slipych, Ph.D. Kyiv National University of Construction and Architecture A.I. Valovoy, Ph.D. K.N. Romanenko, , Ph.D. Krivoy Rog National University A.V. Cikunov, chief PEB LTD «Ferrostroy»

## THE MATHEMATICAL DESIGN OF EMERGENCY CAPACITY IN PROGRAMMATIC COMPLEX «LIRA» AND ITS CONSTRACTION ELEMENTS OF TENSION-DEFORMED STATE RESEARCH

The results of emergency capacity inspection are given. Its mathematical design is executed. On results researches the conclusions about the possibility of reconstruction are made. *Keywords:* results of inspection, mathematical modeling, calculation, tension-deformed state.