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# Communication parameters between local coordinate system and WGS 84 global geodetic system to use in economical and industrial activity of the Vostochny mine, “Apatit” JSC

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As a result of the operations carried out there has been specified an algorithm of calibration of local geodetic and survey networks, i.e. determination of transition from coordinates of the points which were obtained by GPS technologies in the global coordinate systems to coordinates in the local systems. An establishment of a base station to obtain and account differential corrections in the satellite measurements is a necessary condition of calibration.

The algorithm has been realized during calibration of survey network of the Vostochny mine, “Apatit’ JSC. There have been obtained parameters of transition, which provide a direct use of highly effective GNSS-equipment in real-time mode for survey assistance of mining operations.

The calibration of local geodesic and survey base networks crucially permits to improve a system of dispatching of technological equipment in terms of obtaining of a decimetric accuracy for positioning the objects monitored.