

DISADVANTAGES OF HEIGHT ACCURACY REGULATION IN SP 121.13330.2019 "AERODROMES", ACTUALIZED EDITION SNIIP 32-03-96

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Based on the requirements of the current regulatory and technical documents governing the fulfillment of engineering and geodetic surveys for construction, the disadvantages of standardizing the accuracy of heights in SP 121.13330.2019 "Aerodromes", actualized edition SNIIP 32-03-96 are considered. Attention is drawn to the ambiguity of the given norms for the accuracy of heights, which leads to their free interpretation when calculating the accuracy of the alignment base, the internal alignment network, layout work, and control geodetic measurements. Doubts are expressed to their validity. To illustrate the application of the established accuracy standards, there is given an example of calculating the accuracy of high-altitude layout works and control geodetic measurements, internal high-altitude layout networks and a grid base when constructing structural layers of artificial foundations and aerodrome coatings using the "negligible influence" method and taking into account the accuracy of technological processes. Here are suggestions on improving the quality of standardization of the accuracy of heights for the construction of aerodromes.

Keywords: aerodrome, engineering and geodetic surveys, altitude accuracy, accuracy calculation, alignment base, internal networks, layout works, control geodetic measurements, root-mean-square error, maximum permissible error, level of responsibility, confidence level

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