

The Correction to Stake-Out Coordinate Points in Constructing Hydropower Project with Height Dams

Ha Dinh Thi Le (Vietnam)

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SUMMARY

When constructing large-scale hydropower projects, geodetic control points are usually laid out at the distance about 1-2 km from the dam longitudinal axis, and this cause of difficulties in stake-out points. Therefore, when constructing hydropower projects, in staking-out from the use of geodetic control points, additional control points should be established by intermediate points. All of these points constitute a geodetic grid system that covers the whole area of the construction. After measuring the control network, we need to reduce horizontal distances to grid distances. This is the traditional method. In this report, the author has proposed a new method, to directly modify the layout points caused of the height variation of control points. When using the method, the establishment the ground control network of a high dam will save time, cost and unnecessary to use the reference surface and intermediate points in the construction area.

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Ha Dinh Thi Le (Vietnam)

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