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邹铭盛.利用水电站泄流量作为水文站流量测验备用方案的分析[J].广东水利水电,2014,(7):

利用水电站泄流量作为水文站流量测验备用方案的分析

Using Hydroelectric Station Discharge as Gauging Station Discharge Measurement Alternative Scheme

DOI :

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基金项目:

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中文摘要:

为完善巡测方案,水文站必须有应急备用水文测验方案,因地制宜利用水文站上下游的水电站水工建筑物泄流计算流量做为水文站流量测验应急方案是一种选择。以溪口水文站为例,分析、介绍利用上游青溪水电站水工建筑泄流计算流量做为水文站流量资料的补充。溪口水文站实时流量与青溪水电站相应流量呈线性关系,相关关系良好,流量值非常接近,误差较小,虽然青溪水电站流量是用水力学法计算得来的,但它不同于一般的洪水调查,其流量数据的精确度还是有保证的,可做为溪口水文站应急流量测验的备用方法,其资料可加入水文站流量资料整编。但日平均流量资料要慎用。

英文摘要:

In order to improve tour-measuring scheme , gauging station must has emergency alternative scheme .It is an option to apply gauging station's upper and lower reaches hydroelectric stations'hydraulic structure discharge calculated flow as gauging station discharge measurement emergency scheme .It is taken Xikou station as an example , the upper reaches hydroelectric station's hydrau-lic structure discharge calculated flow is taken as a supplement of gauging station 's discharge data .There is a linear relationship be-tween Xikou station's real time discharge and Qingxi hydroelectric station's relevant discharge .The correlativity is fine , their flow values are very close , and the error is small .Although Qingxi hydroelectric station's discharge is calculated by hydraulic calculation , it is different from general flood investigation .However , the accuracy of its discharge data is guaranteed , so this can be used as Xik-ou station's emergency discharge measurement alternative scheme .The data can be added to hydrologic data processing .Nevertheless, the average daily discharge data should be used with caution .

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