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Review and prospect of ecological operation study on reservoirs

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Abstract: The ecological operation of reservoir takes the ecological aim into consideration, and it changes the traditional way. Aiming to protect and improver the health of fiver, the ecological reservoir operation becomes necessary and exigent. Based on the researches abroad and at home, the paper analyzes the key research technological issues in the research area, which includes the identification and quantization of river ecological protection object, regulation effect evaluation, project design of the ecological operation and ecological operation in the watershed scale. Finally, the paper considers that the complete theoretical system is not constructed in the ecological operation of reservoir. Therfore, it pays more attention on the ecological reservoir operation reseatch in the futures.

Key words: hydraulic and hydroelectric engineering; ecological operation of reservoir; ecological environment