



Title: Hydropower System Management Considering the Minimum Outflow

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Abstract: This paper deals with the operating rules of the Grijalva River hydropower serial system obtained by means of stochastic dynamic programming and its subsequent simulation using historical records and synthetic series. Penalties in spills and deficit were considered in optimum policies. During simulation several restrictions were added to the original problem, particularly to ensure minimum outflow so as to guarantee the ecological river flow, which enables operators to adjust energy at daily demands peak and consider the existing autocorrelation between biweekly volume data.