

## **Effect of High Level Water Storage on Stability of Conventional Steam Power plant \***

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### Abstract

The load of conventional steam power plant changes with the variation of electricity consumption. This variation effects the stability of the power plant and fuel rate. Some power plants can not cover the whole increase in consumption at peak time. To improve the performance of steam power plant a hydro-thermal power plant is presented in this paper through pumping sea water to a high level storage tank. Baniyas steam power plant is chosen to study the integration of hydro plant. Baniyas city is located on Syrian coast close to a mountain which is an appropriate place for such plant.

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\* For the paper in Arabic see pages (205-212).

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