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**Estimation of CANDU Reactor Zone Controller Level
by Generalized Perturbation Method**

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ABSTRACT

The zone controller level change due to refueling operation has been studied using a generalized perturbation method. The generalized perturbation method provides sensitivity of zone power to individual refueling operation and incremental change of zone controller level. By constructing a system equation for each zone power, the zone controller level change was obtained. The details and a proposed model for future work are described.