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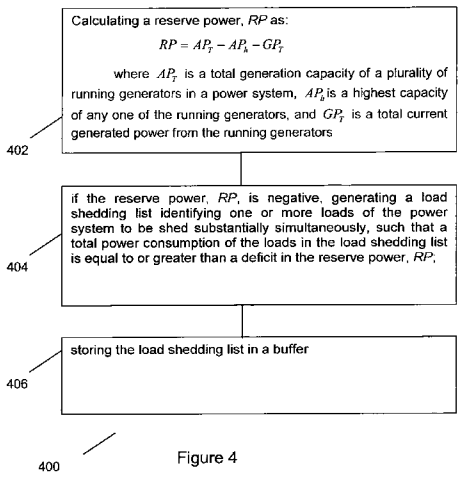

Figure 4

(57) Abstract: A power management and load shedding method and system. The method comprises the steps of: a) Calculating a reserve power, *RP* as: $RP = AP_T - AP_h - GP_T$ where AP_T is a total generation capacity of a plurality of running generators in a power system, AP_h is a highest capacity of any one of the running generators, and GP_T is a total current generated power from the running generators; b) if the reserve power, *RP*, is negative, generating a load shedding list identifying one or more loads of the power system to be shed substantially simultaneously, such that a total power consumption of the loads in the load shedding list is equal to or greater than a deficit in the reserve power, *RP*; c) storing the load shedding list in a buffer; substantially continuously repeating steps a) to c); and shedding the loads identified in the load shedding list stored in the buffer on detection of a failure of any one of the generators.

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