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Revealing the Effect of Excitation Cross Coupling on the LFC Performance in Two Area Hybrid Source System

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Abstract:

In this paper, the significant effect of excitation coupling with multi area hybrid system (MAHS) for load frequency control (LFC) is analyzed. Initially, MAHS is considered with excitation coupling or automatic voltage regulator (AVR) for analysis purposes. Area-1 of MAHS system is loaded with 10%SLP under the supervision of water cycle algorithm (WCA) based PIDD controller with respect to the minimization of integral square error (ISE) function. By contrasting PI/PID, the effectiveness of PIDD is showcased. To further illu LFC of MAHS for instances of with and without taking the col

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I. Introduction

Electric power system main intention is to deliver electric supply to the customer end with reliable, secure and economical. Operation of power system is to be treated properly as they are becoming so vast and complex due to injection of renewable and distributed generation sources to the grid so as to with stand the continuous rise in load demands. With the incorporation of DGs with the existing network, the security of the system is degraded. Reason of the transmission line load ability issues. Normally, power systems are more prone to numerous faults and disturbances during operation tending towards the power delivery with compromise in quality. The compromise in power quality and lack in power system security eventually leads to the system instability. Thus, electric power system needs new regulating techniques to enhance system stability.

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