

OPERATION AND PERFORMANCE ANALYSIS OF A FUZZY CONTROLLED MVDC LINK

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ABSTRACT

The operation of Fuzzy logic controller in medium voltage direct current (MVDC) link is described by using a DC link with medium voltage distribution network with back to back connected to AC system. This consideration is designed using MATLAB and demonstrate the dynamic performance of MVDC link. Here studies the real (P) and reactive (Q) power flows through the link, shows the voltage and currents at the both sides of the MVDC link and controlling of the currents in the system by using fuzzy logic controller in the inverter side.

KEYWORDS: *MVDC Link, Fuzzy Logic Controller, DC Distribution, Full Bridge*

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