

Abstract

This paper discusses the saturation of a 500kV neutral CT upon energization of a 1300MVA transformer bank. The event resulted in the misoperation of a restricted earth fault element protecting the bank and capacitor bank protection on grounded wye capacitor banks in the surrounding system remote from this station. The merits of the simple directional overcurrent restricted earth fault scheme will be discussed as well as the analysis of the capacitor bank protection misoperations.