

ANALYSIS OF FAULT INCIDENTS  
IN THE  
TRANSMISSION AND DISTRIBUTION SYSTEM OF  
EAC

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project Report  
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# Analysis of fault incidents of the distribution and transmission of A.E.C.

## SUMMARY

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The scope of this project is to follow a method of analysis based on a computer software in order to identify the causes of faults that occur, on Distribution system (low voltage, 11kV ) and on Transmission system 132&66kV voltage. By doing this we observed that 132 kV system has no unexpected failures such as low system.

The more significant cause for faults is on 11kV system and the cause is lightning stoke which may be direct or indirect, hence, an overvoltage induced on the line cause flashover of the insulation.

The best method of protecting these lines was the installation of surge arresters by following the adopted EAC policy. The improvement on the reliability of the system is shown on specific feeders that surge arresters have already been installed. A complete picture of the positive results of the above policy will be shown in future more clearly for whole EAC network.

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