



ABSTRACT

*ANALYSIS OF LIGHTNING PROTECTION SYSTEM
IN PT.TJAHAJA AGUNG TUNGGAL*

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Field Project describes the lightning protection systems in buildings PT. Tjahaja Agung Tunggal Siring, Sidoarjo. Lightning is a natural phenomenon of a stepping electric charge due to the potential difference between the clouds with the earth. The biggest potential occurrence of a direct lightning strike is high on the building structure. Therefore, this protection system is indispensable in the building. Earlier PT. Agung Tunggal Tjahaja wearing conventional lightning rod system. But apparently still not able to protect a whole, resulting in the addition of the arrester Lightning protection systems Electrostatic.

The method used in this project by comparing the field of lightning protection is installed electrostatic whether the standard is in conformity with the applicable rules of Permenaker No 02/ MEN/ 1989 and PUIL 2000, but if the installation of lightning protection in the PT. Tjahaja Agung Tunggal didn't accordance with standard rules, that apply will be made to re-planning. So, the electrostatic lightning protection installation can to meet the standards applicable rules.

The analysis showed that the lightning rod mounted on the rooftop of production as a whole hasn't been able to protect the buildings around it which includes the whole building PT. Tjahaja Agung Tunggal Siring, Sidoarjo.