

Hasanuddin

Jurusan teknik elektro Fakultas Teknik Universitas Muhammadiyah Makassar

JL. Sultan Alauddin No. 259 Makassar

E\_mail : [hasanteknik085@gmail.com](mailto:hasanteknik085@gmail.com)

### ABSTRAK

PT. PLN (Persero) Unit Layanan Pelanggan Malino dibutuhkan adanya sistem proteksi atau scada untuk mengidentifikasi adanya gangguan sehingga dapat memudahkan petugas untuk menemukan gangguan yang terjadi dilapangan dikerenakan wilayah kerja berada di dataran tinggi yang membuat petugas PLN sulit melakukan pengecekan. Saluran udara tegangan menengah (SUTM) dengan kawat terbuka merupakan saluran yang paling rawan terhadap gangguan eksternal, yaitu gangguan yang diakibatkan dari luar sistem. Gangguan karena sentuhan pohon merupakan penyebab gangguan pelayanan distribusi tenaga listrik yang paling banyak dilaporkan diseluruh unit pelayanan PLN sebagai akibat dari banyaknya pohon-pohon yang tumbuh disekitar jaringan SUTM, KarenadenganmelihatkondisidaerahkerjadistribusiPT.PLN khususnyadiPT.PLN Unit Layanan Pelanggan Malino yangdaerahdistribusitenagalistriknyasangatrawanakangangguan,khususnyaganggu anSUTMpadasistimdistribusitenagalistik.

**Kata Kunci:** Distributor, PLTA

*Hasanuddin*

*Department of Electrical Engineering, Faculty of Engineering, University of  
Muhammadiyah Makassar*

*JL. Sultan Alauddin No. 259 Makassar*

*E\_mail : [hasanteknik085@gmail.com](mailto:hasanteknik085@gmail.com)*

**ABSTRACT**

*PT. PLN (Persero) Malino Customer Service Unit requires the existence of a protection or scam system to identify the existence of a disturbance so that it can facilitate officers to find disturbances that occur in the field because the work area is in the highlands which makes PLN officials difficult to check. Medium-voltage air channels (SUTM) with open wires are the channels that are most vulnerable to external interference, namely disturbances caused from outside the system. Disruption due to tree touch is the cause of the disruption of electricity distribution services that are most widely reported throughout the PLN service units as a result of the number of trees that grow around the SUTM network, because by looking at the PT PLN distribution work area, especially at PT. PLN Customer Service Unit Malino whose electricity distribution area is very prone to interference, especially interference with SUTM in the electric power distribution system.*

**Keywords:** *Distributors, hydropower plants*