

**DIFFERENCE WAYS INSTALLING *LIGHTNING ARRESTER* OLD TYPE WITH  
NEW TYPE *LIGHTNING ARRESTER* (SAi20z).**

**Labia Natalis Mulait, 2014 - 71 - 037**

**Under the guidance of Novi Gusti Pahyanti, ST., MT**

**ABSTRACT**

PT.PLN (Persero) PUSLITBANG Electricity, especially in Duri Kosambi Quick Connection Laboratory, where electrical appliances are tested to see or match whether it is in accordance with (PLN Standard) before it is used in PLN unit, one of the tested tools is Lightning Arrester type New (SAi20z), Arrester is as a safety device In case of interference Arrester will function as conductor and if normal time arrester function as isolator. For long-type arresters deliver more voltage to the earth while new type arresters supply more voltage through the air channel, and the old type of earth clamp arresters are connected to the conductor while the new type arrester has a 6 cm air gap and then a maximum distance of 8 cm between the conductor and Arrester. Therefore, the writing will discuss about "Installation of Lightning Arester of the old type with new type Lightning Arester (Sai20z) on network (SUTM) 20 kV".

Keywords: Old Arrester Lightning Arrester, New Array Lightning (SAi20z), Reliability of Protection System.