ABSTRACT

One of the transportation that is very popular with people today is the train thanks to the service, comfort, and security that is guaranteed and free from traffic jams and pollution. Since it was established since it was established as the Djawatan Kereta Api Republic of Indonesia in 1945, it has changed its name to PT. Kereta Api Indonesia (Persero), PT. Kereta Api Indonesia (Persero) is always committed to always meeting the needs of the community in providing transportation facilities. In order to support the smooth running of the train and maintain its security, PT Kereta Api Indonesia (Persero) uses crossings to maintain the smoothness and safety of train travel. Crossing doors function to protect train travel from highway users and protect highway users in all conditions with signs and alarms. Accidents that often occur between road users and railways are one of the main reasons for the crossing gate. With this crossing door, it has greatly minimized accidents that occur between trains and highway users, such as before using crossing gates. The crossing door on the train moves with various power supplies namely the PLN power supply, solar power supply and hand generator power supply. In general, the crossing gate at JPL 360 of the Purwokerto Railway Station works with PLN's power supply as a voltage source for door drive and uses barriers as mechanical propulsion from the door. The door will move close if the PES controls the control panel at the service desk, then barriers will move the door, as well as the condition of the door opening. On the service panel table there are switches as controls that have choices to normal, close the door, open the door, lights and sumer. When the switch is operated the lights on the door and the service desk will light up indicating the door and its equipment are working properly. In barriers, there is a shaft contact that works by the movement of the gear motor to move up and down the crossing.

Keywords: JPL 360, barriers, control panels, trains, crossings