ABSTRACT

Switchyard at PT. PJB UP Gresik functions as place of electric instrumental situating get tension of generating who will be channelled to customer or called by gardu induk is opened / conventional. Switchyard having lurching potency that greatly while do care as aculeated as electric current of cable line one that gets tension so get to evoke death. Switchyard having capacity delivers tension reach 150 kV.

Risk of care activity switchyard can at minimization with makings preventive maintenance. This research work through care activity planning by methodics Job Safety Analysis (JSA) and risk estimation up on risk matrix. kualitative’s count is given to determine that optimal care minimization accident of employs and equipment, so care process switchyard well-oiled. Meanwhile Hazard Identification Risk Assessment and Risk Control (HIRARC) utilized to identify danger upon maintenance switchyard 150 kV.

Up on makings JSA points out that one can trouble production process from PT. PJB UP Gresik which is factor which comes from unsafe action that own and imprecise APD purpose. Risk estimation points out that care that needs to get priority in its work is while tension normalization condition. While non-actived PMS Ground assess risk that is given is 3 (likely) to (possible zoom) and 3 (extremely harmfull) to (very danger) so its risk point 9 (intolerable). Breakdown of danger which is aculeated AC's current electricity equipment. Its danger risk which is gets to cause singe and causes death. Risk analysis bases HIRARC points out that nearly all activity of release, care and tension normalization have tall risk (high).

Key word:  maintenance, switchyard 150 kV, Job Safety Analysis (JSA), Hazard Identification Risk Assessment and Risk Control (HIRARC), unsafe action, self protecting tool (APD)