ABSTRACT

Requirement will mature armor metal purpose this experience developing along with growth on various industry’s area. Needful this processes steelmakings or smelting even that produce metal corresponds to application need in its using up, in term force, violence, weary force, corrosion robustness etcetera, so in its using up will give the most result optimal. But on that process usually is still need sizable energy operation, so reducing perceives this process efficient. For efficient energies gets to be settled by modeling and control Electric Arc Furnace (EAF). EAF is the central process of the so-called mini mills, which produce steel mainly from scrap. Typical EAFs operate at power level from 10 MW to 100 MW. Therefore in this final task made by modeling and control simulation on EAF utilize Matlab’s Software, where the controller utilizes Open-Loop system and Close-Loop system so is gotten a modeling and control EAF one that dynamic with taking sample at PT. Barata Indonesia (Persero) Gresik. Modeling and control EAF using Close-Loop system will be efficient for produce current and power consumtion 69.82% as compared to Open-Loop system.
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