ABSTRACT

Operator ability which isn't flatten though have worked during through years with. Operator which do not dare to take the decision if happened the problems, then look for the chief of operator or RC to be handling problems that happened. The happening of difference between new operator with the old operator because its tardy knowledge domination and skilled for new operator.

With the three problems above hence righteously need to be made an expert system. exploiting of expert System representing implementation artificial intelligence is expected can assist the process of operation and maintenance for boiler and also give the knowledge and skilled for new operator. Target of system development in expert system in fact non to replace the human being role, but for the substituted of knowledge human being into system form, so that can be used by a lot of people.

Computer exploiting as media for the making of expert system and for the exploiting of itself expert system requirement conditions which must be fulfilled. By using this expert system, we can know the operation instruction of boiler to start and also shutdown. We also can know the boiler condition depend to selected parameter, whether boiler in a good condition or not. And also able to do the consultancy with the expert system when the problem happened at boiler by giving solution for trouble that happened and can accommodate the daily report of boiler during it’s operated so that when unmill process can be reevaluated as according to daily report which have been recorded.

Keyword: artificial intelligence, expert system, boiler.