ABSTRACT

Central Control Room (CCR) shift operator role in the effort of providing electric power generation unit is very important. The low intensity lighting in the control room that does not fit standard can cause eyestrain, moreover the intensity of noise at the operator’s work area belongs to the very high level (84,5 – 99,8 dBA). On the other hand, demands an enormous responsibility can be the source of work stressor for the shift operator. This research conduct to find out the difference of hearing loss (auditory), complaint of eyestrain, and work stress between the CCR shift operator Steam Power Plant (PLTU) and Gas and Steam Power Plant (PLTGU) PT PJB Unit Pembangkitan Gresik.

This research was carried out with the design of cross-sectional by using questionnaire and an audimetry medical check-up. Dissemination of the questionnaire implemented in 28 CCR shift operator PLTU and 13 CCR shift operator PLTGU. The subject in the pull of population with simple random sampling technique.

Testing with a different cross-tabulate test statistic (contingency) 2x2 retrieved there is difference of hearing loss (auditory) between CCR shift operator PLTU and PLTGU (p<0,05), there is no difference of eyestrain complaint between CCR shift operator PLTU and PLTGU (p>0,05). While testing different test statistics work stress with Wilcoxon-Mann Whitney shows no different work stress (p>0,05) for variable stressors: role conflict and role ambiguity, regarding there is a difference work stress (p<0,05) for the variable stressors: overload quantitative, overload qualitative, career development and responsibility for people.

The conclusion that can be draw is: there is difference in hearing loss (auditory) between CCR shift operator PLTU and PLTGU, there is no difference eyestrain complaint between CCR shift operator PLTU and PLTGU, and there is difference work stress between CCR shift operator PLTU and PLTGU which stressors variable are overload quantitative, overload qualitative, career development and responsibility for people.

Keywords: hearing loss (auditory), eyestrain complaint, work stress