

## ABSTRACT

*Railway noise can have an impact on the surrounding environment, one of which is in the school environment. Therefore an objective evaluation is needed in and outside the class. The highest  $L_{Aeq}$  values in classrooms based on Position 1 and 2 are located on Wednesday, which is equal to 63.88 dBA and 60.01 dBA. At position 3 has the highest  $L_{Aeq}$  value on Tuesday which is 58.31 dBA.  $L_{Aeq}$  measurements outside the classroom are carried out only for one day for 15 minutes between the hours of 08.00 - 12.00 and measured next to the class position that has been determined. From the large  $L_{Aeq}$  inside and outside the class that has been obtained, it has exceeded the noise level in the school environment which is allowed by the Minister of Health of the Republic of Indonesia in 1987, which is 55 dBA. NC measurements on Mondays in Positions 1, 2 and 3, which are equal to  $NC > 70$ , NC-55, and NC-55. NC values on Tuesday in positions 1, 2 and 3 are equal to NC-65, NC-55, and NC-60. On Wednesday in positions 1, 2 and 3 have NC values of NC-40, NC-55, and NC-45. From the NC values that have been obtained, show that the suitability of room noise exceeds the predetermined standard, which ranges from NC-30 - NC-35. The subjective measurement of SDN 05 Merdeka teachers when there is a train has a significant difference in Position 1 - 3 in one aspect, but when without a train occurs in all aspects. Then another elementary school teacher had a significant difference in Sounds 1 - 3 in all aspects.*

*Keyword : Noise Train,  $L_{Aeq}$ , Noise Criteria, Subjective Parameter*

