

**REDESIGN ASP UNIT OPERATOR ROOM  
PT SAMATOR GAS INDUSTRY-GRESIK  
TO REDUCE NOISE**

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***Abstract***

*The noise level is measured in space due to noise machine room operator unit PT Samator GAS INDUSTRY ASP-GRESIK relatively high noise level of 74 dBA. Solutions to overcome the problem of noise on workers by redesigning the space operator by adding material to reduce noise in areas that it is possible to transmit noise from the engine room to room operator. Redesigning the space unit operator ASP is by way of addition of plywood on the wall of separation between the engine room by room operators to determine the thickness and density of the material. Materials plywood with a thickness of 0.4 cm (4 mm) on glass having the addition of a 1cm (10 mm) produces a noise level of 57.50 and can reduce noise by 16.50 dBA. In order to reach goals for noise level according to the decision of the Minister of Health of less than 60 dBA*

**Keyword** : *transmission loss,plywood thickness,noise*

