

Risk assessment for Kahramanmaraş paper mill

Ahmet Tutuş¹, Nevres Demir¹, Mustafa Çiçekler^{1,*}, Hasan Serin¹

¹ Kahramanmaraş Sütçü İmam University, Faculty of Forestry, Department of Forest Industry Engineering, KSU, 46050, Kahramanmaraş
* Corresponding author: mcicekler87@gmail.com

Abstract: In this study, the hazards and risks that can occur in the paper industry in terms of worker health and work safety were analyzed and measures to be taken were described. Thus, the application of risk analysis in a sector related to forest products were performed to give an idea of how accomplished, and it is intended to serve as an example which will work in the related field further. Kahramanmaraş Paper Mill which belongs to Kahramanmaraş Paper Industry and Trade Joint Stock Company was selected as the application area depends on the was selected. In this study, based on the No. 6331 Occupational Health and Safety Act and technical staffs and employees which work in Kahramanmaraş Paper Mill in addition to concerning the health and security, and in terms of occupational health and safety which are important in the work environment; noise, light intensity, temperature, relative humidity, vibration, and indoor gas (nitrogen dioxide-NO₂, sulfur dioxide-SO₂, O₂ and hydrogen sulfide-H₂S) were measured. As a result of measurements, the average noise level and the light intensities of the factory were found as approximately 85.3 dB(A) and 207.92 lux, respectively. When evaluated based on the U.S. ASHRAE standards, enterprise's operating environment was found to be appropriate for the temperature. In addition, the relative humidity of the work section was at the desired level. According to regulation, hand-arm vibration measurements were at the desired level. Hydrogen sulfide was not observed except for the refining section. The oxygen level of the work area was within the accepted limit values (%19-25) in terms of worker health and safety. Sulfur dioxide was not observed in the any sections of factory.

Keywords: Risk analysis, Paper mill, Occupational health and safety