ABSTRACT

Paper stock which progressively mount is not accompanied with the make-up of wood readiness upon which its base, this matter become the constraint because process to make paper is much more brief than wood readiness upon which its base. Paper which not used usually become the garbage which of no use. Waste paper with the brightness 47 – 50 % improper used as newspaper. To make the waste paper competent as newspaper hence waste paper have to own the brightness at gyration 55 – 65 %. System Fotosensitizer moving Bed system had been tested at Pulp that proven can do its duty as bleaching reactor. Fotosensitizer Moving Bed system also used at this waste paper bleaching. Variable tested by using this Fotosensitizer moving Bed system is concentration of Rose Bengal equal to 100 ppm, 200 ppm and 400 ppm, concentration Peroxide Hydrogen equal to 1% (b/b) and 2% (b/b) also bleaching time during 1 hour and 3 hour and also waste paper consistency equal to 1%, 2% and 4% (b/b) which variable used to know its influence paper brightness of waste paper. The blanko of Paper brightness equal to 51.8 % and after bleached using Fotosensitizer Moving Bed system, the maximum brightness equal to 64.7 % at bleaching fotonis with the Peroxide Hydrogen 2 % (b/b) during 3 hour at Rose Bengal concentration 400 ppm and waste paper consistency at 2% and 4% (b/b). this value have competent if will be utilized for the paper of newspaper. So that Fotosensitizer Moving Bed System serve the purpose of system recycle of waste paper.