ABSTRACT

MAINTENANCE POLICY PLANNING ON
306 MACHINE BARMAG FK6-800 TYPE V USING
LIFE CYCLE COST (LCC) AND
COST OF UNRELIABILITY (COUR) METHOD
AT PT XYZ

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PT XYZ is a company that is engaged in textile industry since 1974 and located in Moh. Toha street, Bandung. One of their yarn product is DTY (Draw Textured Yarn) Barmag FK6-800 V type machine is a machine that is used for doing the core process that have eight machine, 301-308. In calculation, machine that has the highest downtime, failure frequency, and loss production is number 306. By the high downtime, DTY demand that is received by PT XYZ caused the machine can't operated optimally. To overcome it, maintenance task in Barmag FK6-800 V type machine should be done. Life Cycle Cost (LCC) method is used for knowing the optimal number of maintenance crew and retirement age in a machin. Cost Of Unrealibility (COUR) method is also used for knowing the cost of unreliability from a sistem in a machine. Depends on LCC method, the lowest LCC value is Rp 1.858.728.298,00 with the optimal age is ten years and the number of maintenance crew are four crew in a shift. In COUR calculation, cost of unreliability of a sistem is Rp 860.850.897,00 depend on active repair time and Rp 1.479.172.752,00 depend on the downtime.

Keyword : Retirement Age, Maintenance Crew, Life Cycle Cost (LCC) and Cost of Unrealibility (COUR).