

Yeti Oktaviani. NPM 190331100067. Desain Pemeliharaan Mesin Olahan Garam dengan Metode *Maintenance Quality Function Deployment (MQFD)* (Studi Kasus PT Garam Unit Camplong). Dibawah bimbingan **Khoirul Hidayat, S.T., M.T** dan **Dr. Darimiyya Hidayati, S. TP., M.P.**

ABSTRAK

PT Garam merupakan perusahaan industri yang bergerak dalam bidang industri garam. Pada proses pemeliharaan mesin digunakan jenis pemeliharaan *preventive maintenance*, namun hal tersebut masih belum berjalan maksimal. Tujuan dari penelitian ini yaitu 1) Menganalisa atribut pemeliharaan mesin yang sesuai dengan keinginan pelanggan 2) Mendapatkan usulan perbaikan yang efektif sesuai dengan keinginan pelanggan. Metode yang digunakan yaitu *maintenance quality function deployment (MQFD)*. Hasil penelitian didapatkan dari 26 atribut pemeliharaan didapatkan 5 atribut pemeliharaan prioritas yaitu kinerja *screw conveyor*, kinerja *burner*, kinerja *dryer*, tingkat keahlian teknisi dan kondisi pengaman motor. Usulan yang didapatkan untuk pemeliharaan yaitu melaksanakan langkah-langkah *autonomous maintenance* yaitu dengan memberikan tanggung jawab kepada operator terkait pembersihan mesin, memberikan *check sheet abnormal list*, membuat standar kebersihan, memberikan tanggung jawab terkait perawatan awal mesin. Usulan untuk program *preventive maintenance* didapatkan usulan yaitu membuat jadwal perbaikan rutin dan konsisten, membuat data monitoring mesin harian untuk menentukan agenda perbaikan, dan memenuhi kebutuhan *sparepart*. Usulan perbaikan untuk pelatihan pengikatan *skill* teknisi yaitu memberikan pelatihan terkait kemampuan dasar perawatan mesin dan memberikan pelatihan terkait kelistrikan.

Kata kunci: Mesin, *Maintenance Quality Function Deployment*, Pemeliharaan, *Preventive Maintenance*, *Autonomous Maintenance*.

Yeti Oktaviani. NPM 190331100067. Maintenance Design of Processed Salt Machines with the Maintenance Quality Function Deployment (MQFD) Method (Study Case of PT Garam Unit Camplong). Under the guidance of **Khoirul Hidayat, S.T., M.T** and **Dr. Darimiyya Hidayati, S. TP., M.P.**

ABSTRACT

PT Garam is an industrial company engaged in the salt industry. In the machine maintenance process, preventive maintenance is used, but this is still not running optimally. The aims of this study are 1) To analyze the attributes of machine maintenance in accordance with the wishes of the customer 2) To obtain effective improvement proposals in accordance with the wishes of the customer. The method used is maintenance quality function deployment (MQFD). The results of the study obtained from 26 maintenance attributes, 5 priority maintenance attributes were obtained, namely screw conveyor performance, burner performance, dryer performance, technician skill level and motor safety conditions. The proposals obtained for maintenance are carrying out autonomous maintenance steps, namely by giving responsibility to operators regarding machine cleaning, providing check sheets for abnormal lists, making cleanliness standards, giving responsibility regarding the initial maintenance of the machine. Proposals for a preventive maintenance program were proposed, namely making a routine and consistent repair schedule, making daily machine monitoring data to determine the repair agenda, and meeting spare parts needs. Proposed improvements for technician skill binding training, namely providing training related to basic machine maintenance skills and providing training related to electricity.

Keywords: *Machin, Maintenance Quality Function Deployment, Maintenance, Preventive Maintenance, Autonomous Maintenance.*