ABSTRAK

This thesis examined in order to evaluate the maintenance management system to improve reliability of critical equipment so that to effectively and efficiently, by applying Reliability Centered Maintenance (RCM) or a Failure Mode Effect Analysis (FMEA) as tools. In the analysis, the first approache taken is critical equipments, for critical equipment category "A" greatly affects the overall operation, further associated with critical parts and warehouse management as well as the Bill of Material (BOM). With the FMEA analysis performed to detect and analyze potential failure to do so as not to be a failure that could stop the production process. Proactive maintenance is the key word to create an asset reliability to operate in accordance with the user desires under optimal cost. With a proactive model of maintenance, spare parts need better planned. Planning planned improvements will result directly to the planning of spare parts, so that the existence of spare parts in warehouses more optimal.

Keywords: Reliability Centered Maintenance (RCM), Failure Mode Effect Analysis (FMEA), Proactive Maintenance, Bill of Material